6e
BL

stock
components for
the fabrication
and assembly
of architectural
metal work

JULIUS BLUM AND COMPANY, INC.

Carlstadt, New Jersey
phone: GEneva 8-4600
Philadelphia phone:
MArket 7-7596
New York phone:
OXford 5-2236
for complete
information, write
for catalog no. 8

NOTE:

Page 2: Carlstadt Aluminum Railing Components. Simple and rugged. Have ample strength for schools, public buildings, etc.

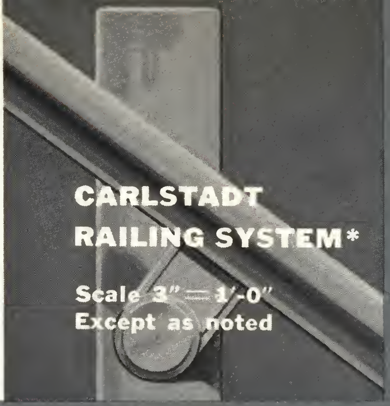
Page 3: Colorail Plastic Handrails. Colorful, easy to fabricate, permanent.

Page 8: New Tubing Sizes: 2" x 10" and 2" x 12" for stair stringers.

Plus: Stainless steel railing components, a bigger line of architectural metal items.

1960 A.I.A. FILE NO. 15

Julius Blum & Co., Inc.
Fifty Years
1910-1960



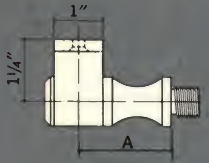
CARLSTADT RAILING SYSTEM*

Scale 3" = 1'-0"
Except as noted

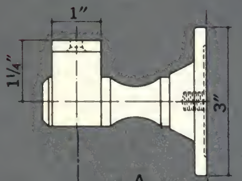
CARLSTADT handrail components are designed for ease of installation, attractive appearance, durability, and low maintenance and are suitable for alumiliting.

All items in stock for immediate shipment

CARLSTADT ADJUSTABLE HANDRAIL BRACKETS

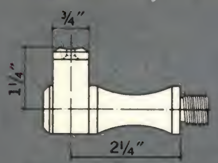


			A
311	ALUMINUM	(post mounting)	1⅞"
312	ALUMINUM	(post mounting)	2⅜"

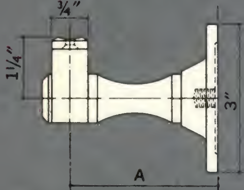


			A
313	ALUMINUM	(wall mounting)	2⅝"
314	ALUMINUM	(wall mounting)	3⅛"

PIPE RAIL BRACKETS

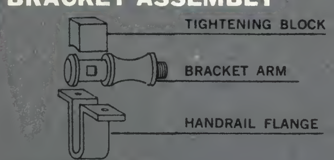


322 ALUMINUM (post mounting)



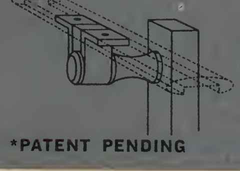
			A
307	ALUMINUM	(wall mounting)	2½"
308	ALUMINUM	(wall mounting)	3"

BRACKET ASSEMBLY



Three Basic Components

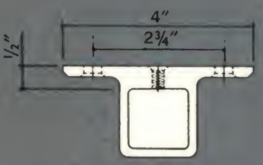
Easy to install:
Recess of bracket arm has flat sides. Wrench can be applied here without marring finished surfaces.



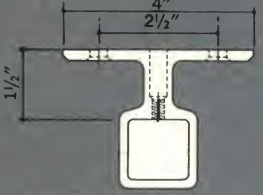
Remains tight:
Pressure of tightening block prevents looseness and rattling.

*PATENT PENDING

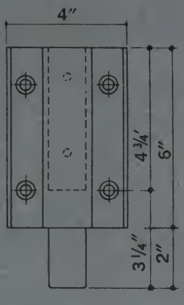
FACIA FLANGES



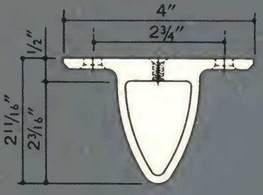
421 ALUMINUM



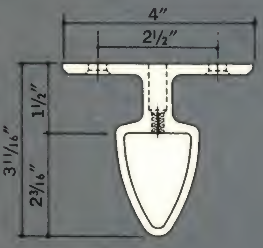
422 ALUMINUM



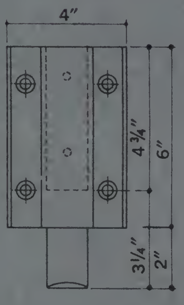
For Post No. **423**
Not to scale



425 ALUMINUM



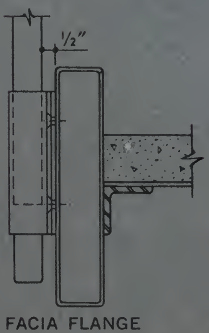
426 ALUMINUM



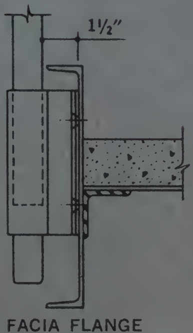
For Post No. **427**
Not to scale

FLANGE DETAILS

Scale 1½" = 1'-0"



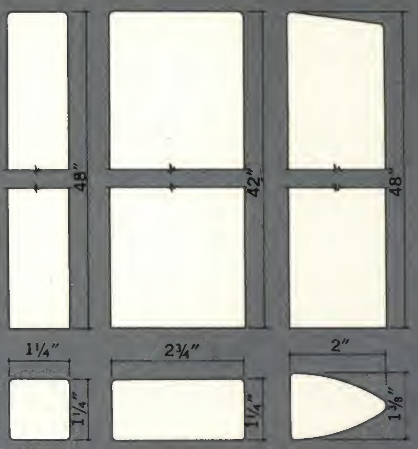
FACIA FLANGE
No. 421 or 425
used with box
stringer



FACIA FLANGE
No. 422 or 426
used with channel
stringer

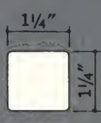
SOLID RAILING POSTS

Aluminum – Upper end finished, no cap needed

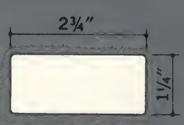


423 424 427

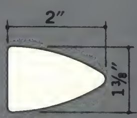
BAR STOCK FOR RAILING POSTS ALUMINUM – 20' LENGTHS



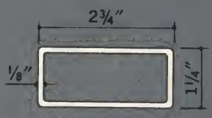
6423 1.876 LBS.



6424 4.124 LBS.

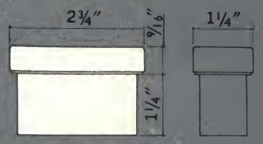


6427 2.256 LBS.



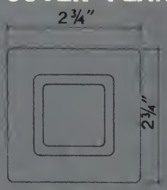
6434 1.123 LBS.

END CAP For Post No. 6434

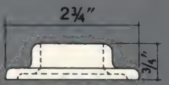


784 ALUMINUM

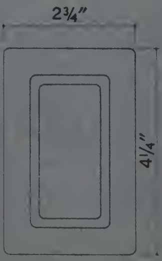
COVER FLANGES



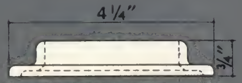
773 ALUMINUM



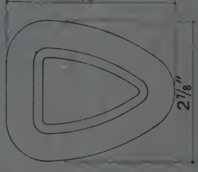
For Post No. **423**



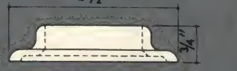
774 ALUMINUM



For Post No. **424**



777 ALUMINUM



For Post No. **427**

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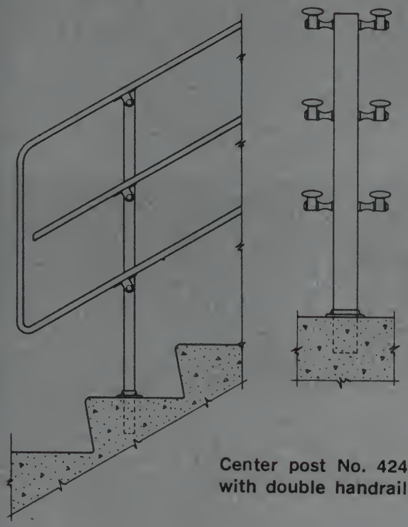
CENTER RAILING

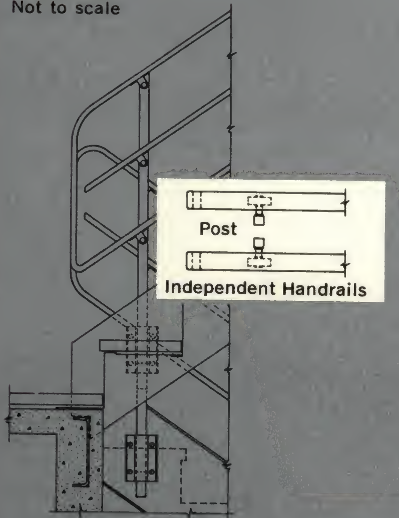
Not to scale

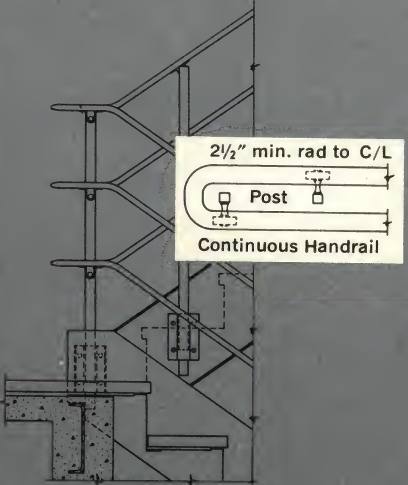


Center post No. 424 with double handrail

LANDINGS

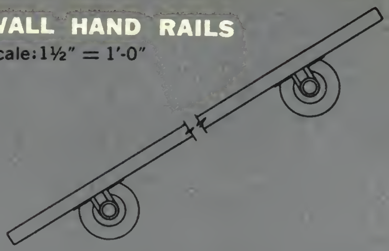
Not to scale

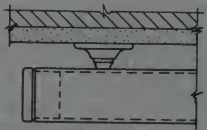




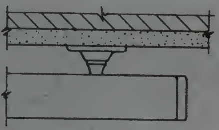
WALL HAND RAILS

Scale: 1½" = 1'-0"

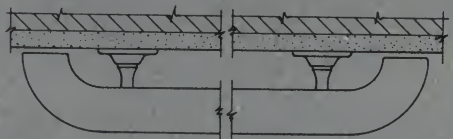




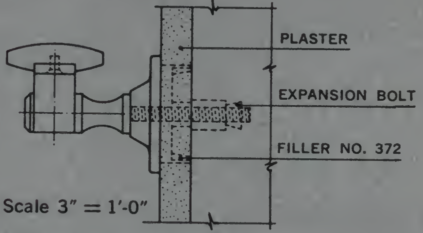
Railing 6434 used with cap 784



Solid moulding with square end

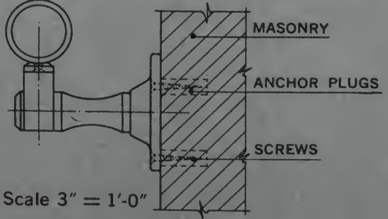


Railing using corner bends as wall returns.



Scale 3" = 1'-0"

Installation using cast iron filler and expansion bolt (For Filler see page 5)

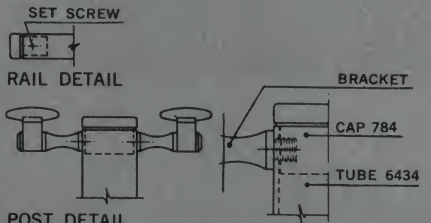


Scale 3" = 1'-0"

Installation using three flat head wood screws.

END CAP

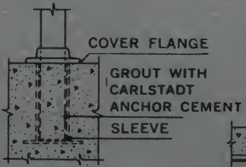
Scale: 1½" = 1'-0"



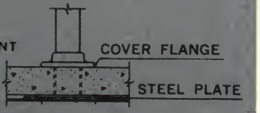
End Cap 784 may be used to terminate railing or post 6434. Cap is provided with solid plug so as to give handrail brackets firm support.

POST ANCHORING

Scale 1½" = 1'-0"



Post set in metal sleeve in masonry and anchored with Carlstadt Anchor Cement.



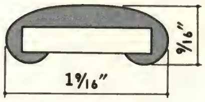
Post anchored to sub-tread or platform.

CARLSTADT COLORAIL

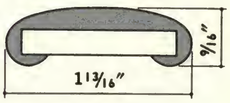
THE COLORFUL PLASTIC HANDRAIL, EASY TO FABRICATE—NEEDS NO MAINTENANCE

Carlstadt Colorail is supplied in 100 foot coils, or cut to specified lengths. All the illustrated sizes and shapes are available for immediate delivery. Color-fast Colorail in black, gray, red and gold is carried in stock. Additional colors will be made available as the demand arises. Colorail can be fabricated and installed without special tools.

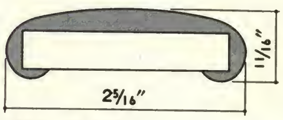
When heated, it becomes as pliable as rubber. After cooling, it hugs firmly the top bar of the railing.



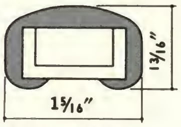
6701	BLACK	for 1¼" x ¼" flat bar
6702	GRAY	
6703	RED	
6704	GOLD	



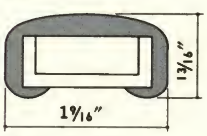
6711	BLACK	for 1½" x ¼" flat bar
6712	GRAY	
6713	RED	
6714	GOLD	



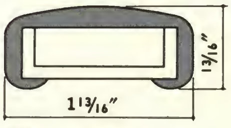
6721	BLACK	for 2" x ⅜" flat bar
6722	GREY	
6723	RED	
6724	GOLD	



6731	BLACK	for 1" x ½" channel
6732	GRAY	
6733	RED	
6734	GOLD	



6741	BLACK	for 1¼" x ½" channel
6742	GRAY	
6743	RED	
6744	GOLD	



6751	BLACK	for 1½" x ½" channel
6752	GRAY	
6753	RED	
6754	GOLD	

HANDRAIL MOULDINGS

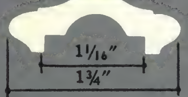
Scale = ½ size

All items in stock for immediate shipment

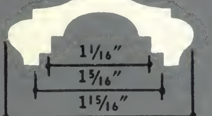
For complete listing of stock mouldings, see Catalog No. 8

SEE PAGE 5 FOR ILLUSTRATIONS OF MATCHING HANDRAIL FITTINGS

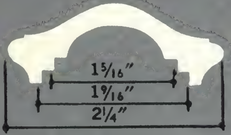
Steel, Bronze and Aluminum handrail mouldings are carried in stock in 20 foot lengths except as noted. Steel mouldings Nos. 4428, 4429, 4435, and 4441 are rolled from an especially soft steel to facilitate bending. Steel mouldings Nos. 4425, 4426, and 4434 are made of a soft cold rolled steel having a smooth bright surface. Bronze mouldings are extruded from a soft architectural bronze alloy for easy bending. Aluminum mouldings are extruded from alloy 6063-T5 suitable for Alumiliting. Fittings are carried in stock in malleable iron, bronze and aluminum as noted to match moulding profiles and finishes. Aluminum and Bronze fittings are satin finished and lacquered. Aluminum fittings are suitable for alumiliting after removal of lacquer. Bronze fittings match the color of extruded handrails.



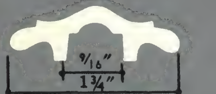
4429 STEEL* 1.60 lb.
Fittings: B • C • E • F • GL • GR • L • N • S • SL • SR • T • U • UC • UL • V



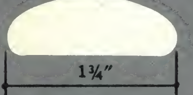
4428 STEEL* 1.95 lb.
Fittings: B • C • E • GL • GR • L • S • T • V



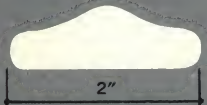
4441 STEEL* 2.00 lb.
Fittings: B • C • E • GL • GR • S • V



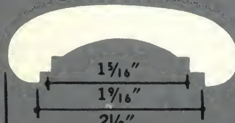
4437 STEEL 1.45 lb.
Fittings: GL • GR • UC • UL



4415 STEEL 3.04 lb.
No fittings available

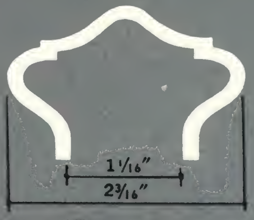


4416 STEEL 3.15 lb.
No fittings available

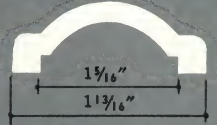


4435 STEEL*2.63 lb.
No fittings available

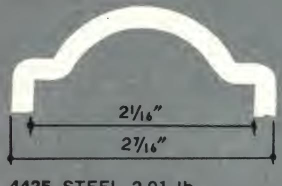
*PRIME DOMESTIC STEEL



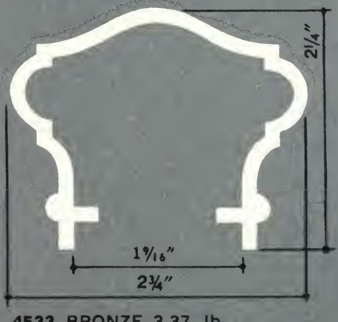
4434 STEEL 1.76 lb.
No fittings available



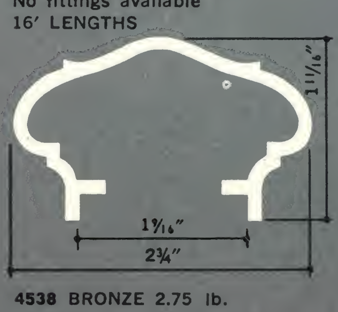
4426 STEEL 1.35 lb.
No fittings available



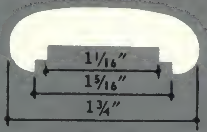
4425 STEEL 2.01 lb.
No fittings available



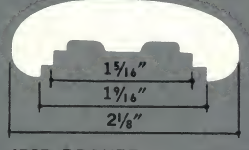
4533 BRONZE 3.37 lb.
No fittings available
16' LENGTHS



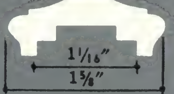
4538 BRONZE 2.75 lb.
Fittings: C



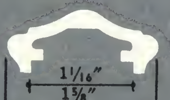
4539 BRONZE 2.56 lb.
6933 ALUMINUM .770 lb.
Fittings: B • C • GL • GR • N • S • V



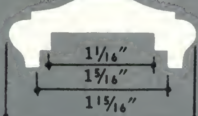
4535 BRONZE 3.01 lb.
6935 ALUMINUM .980 lb.
Fittings: B • C • E • GL • GR • L • N • S • T • V



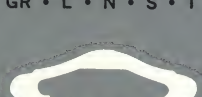
4531 BRONZE 1.93 lb.
6931 ALUMINUM .594 lb.
ALCOA 66294
Suitable for bending
Fittings: B • C • E • GL • GR • L • N • S • T • V



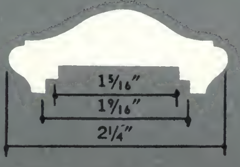
4537 BRONZE 1.30 lb.
For straight run work.
Fittings: Same as **4531.**



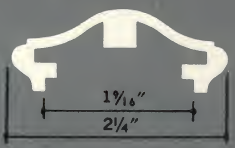
4534 BRONZE 2.43 lb.
6934 ALUMINUM .784 lb.
ALCOA 66295
Suitable for bending
Fittings: B • C • E • GL • GR • L • N • S • T • V



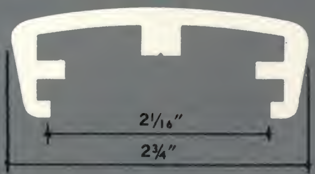
4536 BRONZE 1.63 lb.
For straight run work.
FITTINGS: Same as **4534.**



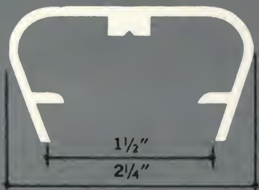
4530 BRONZE 2.91 lb.
6930 ALUMINUM .900 lb.
ALCOA 66296
Suitable for bending
Fittings: B • C • E • GL • GR • L • N • S • T • V



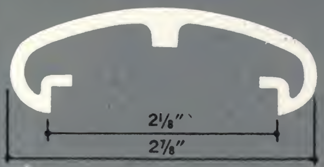
4532 BRONZE 2.13 lb.
6929 ALUMINUM .67 lb.
ALCOA 23681
For straight run work.
Fittings: Same as **4530** & **6930.**



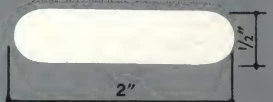
6987 ALUMINUM .858 lb.
Fittings: C • N



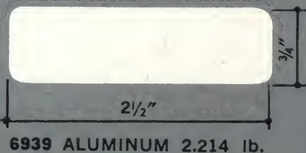
6981 ALUMINUM .694 lb.
ALCOA 25300
No fittings available



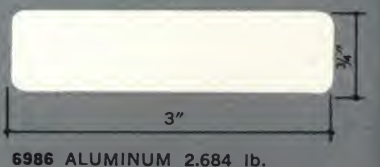
4529 BRONZE 2.53 lb.
6932 ALUMINUM .852 lb.
ALCOA 90503
Fittings: B • C • N • S • V



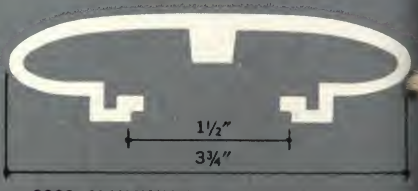
6988 ALUMINUM 1.138 lb.
No fittings available



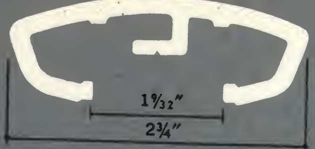
6939 ALUMINUM 2.214 lb.
No fittings available



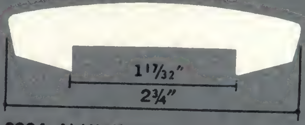
6986 ALUMINUM 2.684 lb.
No fittings available



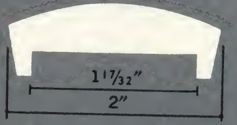
6983 ALUMINUM 1.408 lb.
ALCOA 16816
Fittings: C • N



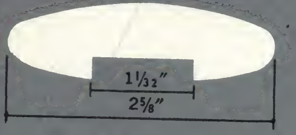
6904 ALUMINUM .871 lb.
ALCOA 87068
No fittings available



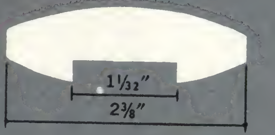
6984 ALUMINUM 1.301 lb.
Fittings: C • N



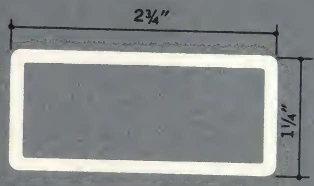
6985 ALUMINUM .977 lb.
Fittings: C • N



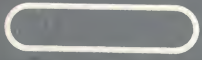
6901 ALUMINUM 1.650 lb
Fittings: C • N



6902 ALUMINUM 1.464 lb.
Fittings: C • N

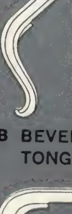


6434 ALUMINUM 1.123 lb.
Fittings: End Cap See page 2.

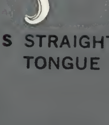


OVAL TUBING STAINLESS STEEL
2″ x ½″ x .065″ .944 lb.
No fittings available

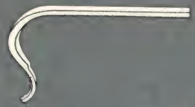
HANDRAIL FITTINGS
Not to scale



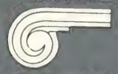
B BEVEL LAMB'S TONGUE



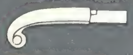
S STRAIGHT LAMB'S TONGUE



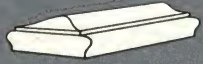
F HANDRAIL MOULDING WITH FORGED LAMB'S TONGUE 4429 only.



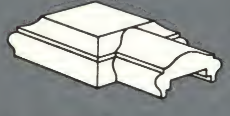
V VOLUTE



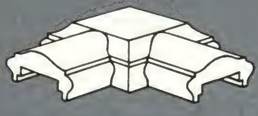
V VOLUTE
4529V
6932V



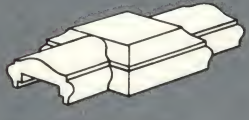
N SQUARE END PIECE



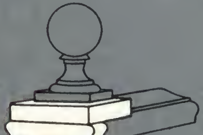
E TERMINAL



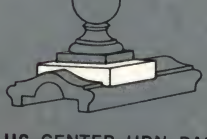
L CORNER PIECE



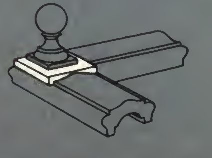
T CENTER PIECE



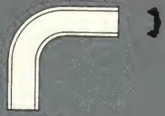
U END URN BASE



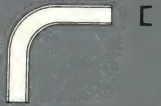
UC CENTER URN BASE



UL CORNER URN BASE

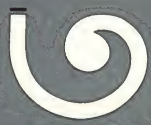


C CORNER BEND



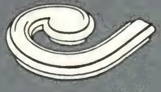
CC CHANNEL CORNER BEND
Malleable Iron • Sections

100CC	1″ x ½″ x ⅛″	[
125CC	1¼″ x ½″ x ⅛″	[
150CC	1½″ x ½″ x ⅛″	[

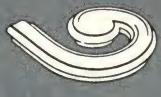


P FLAT BAR LATERAL SCROLL
Steel • Sections:

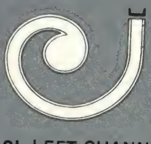
100P	1″ x ⅜″	—
125P	1¼″ x ⅜″	—
150P	1½″ x ⅜″	—



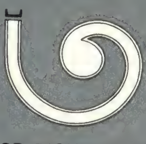
GL LEFT LATERAL SCROLL



GR RIGHT LATERAL SCROLL



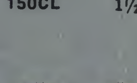
CL LEFT CHANNEL LATERAL SCROLL



CR RIGHT CHANNEL LATERAL SCROLL

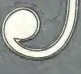
Malleable Iron • Sections:

100CL	1″ x ½″ x ⅛″	**100CR**
125CL	1¼″ x ½″ x ⅛″	**125CR**
150CL	1½″ x ½″ x ⅛″	**150CR**

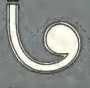


SL LEFT JUNIOR LATERAL SCROLL
4429 only.

SR RIGHT JUNIOR LATERAL SCROLL
4429 only.



JL LEFT JUNIOR CHANNEL LATERAL SCROLL

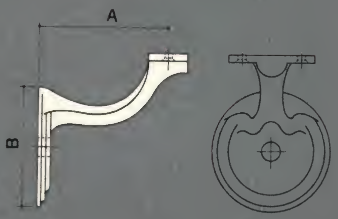


JR RIGHT JUNIOR CHANNEL LATERAL SCROLL

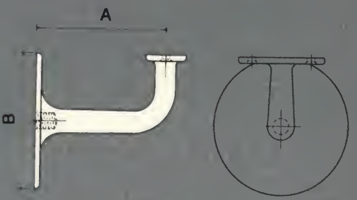
Malleable Iron • Section:
100 JL 1″ x ½″ x ⅛″ **100 JR**

When ordering handrail fittings, give number of handrail and symbol of fitting, e.g. 4429-B

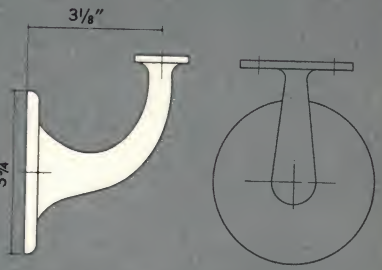
HANDRAIL BRACKETS
Not to scale



		A	B
379	CAST IRON	2½″	2¾″
387	BRONZE	2½″	2¾″
383	ALUMINUM	2½″	2¾″
381	MALLEABLE IRON	2½″	2¾″
305	MALLEABLE IRON	3″	3¼″
317	BRONZE	3″	3¼″
315	ALUMINUM	3″	3¼″

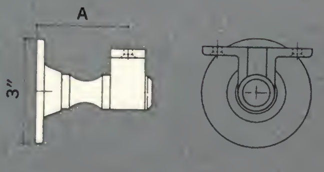


		A	B
373	CAST IRON	2½″	3½″
377	MALLEABLE IRON	2½″	3⅛″
370	BRONZE	2½″	3⅛″
371	ALUMINUM	2½″	3⅛″
385	MALLEABLE IRON	3″	3⅛″
304	BRONZE	3⅛″	3¾″
302	ALUMINUM	3⅛″	3¾″



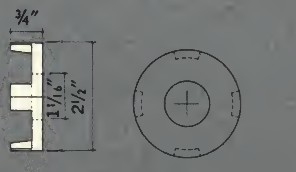
ALCOA NO. 303-B ALUMINUM Unpolished

ADJUSTABLE WALL BRACKETS



		A
313	ALUMINUM	2⅝
314	ALUMINUM	3⅛

WALL BRACKET FILLER



372 CAST IRON

ORNAMENTAL CASTINGS FOR RAILINGS AND TREILLAGE

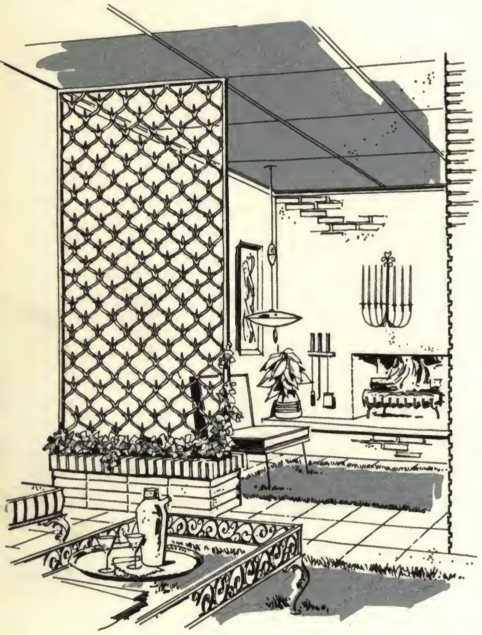
MALLEABLE IRON — NO BREAKAGE

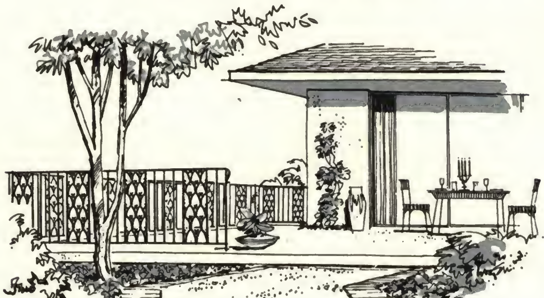
Scale approx. 3/4" = 1'-0"

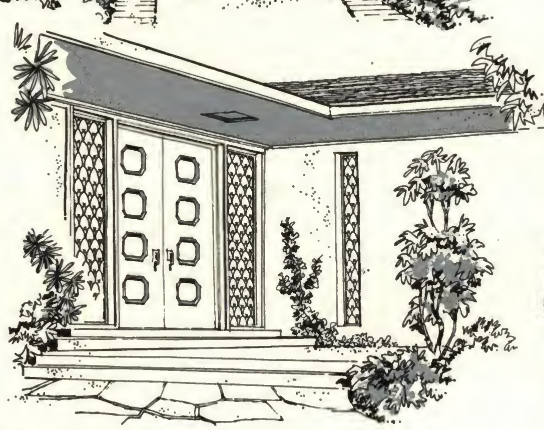
These ornamental castings are clean in appearance with every detail executed perfectly. They are made of high grade malleable iron, will not break under ordinary conditions and will withstand considerable abuse. They may be bent to meet the builder's individual conditions such as may occur on curved railings and balconies. The castings may be welded into steel framework or to each other, and may be hammer-marked or given other types of finishes. These desirable features, made possible by the use of high quality materials, make these castings superior to ordinary cast iron castings and reduce the cost of fabrication and installation as well as producing a more attractive and permanent finished job. Patterns may be repeated or alternated to form continuous designs and all castings are double-faced allowing their use right or left hand.

All items in stock for immediate shipment

Shown here are only a few of the many stock designs of Julius Blum & Co.
For the complete line, see Catalog No. 8.







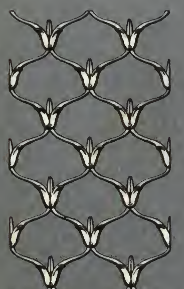
NEW!

The new "Amsterdam" and "Canterbury" castings can be used singly or combined into continuous patterns both horizontally and vertically. This makes them adaptable to room dividers, gates, and grilles as well as railings and columns.

NEW!

Patterned from the gates of "Cambridge" this fine English design illustrates its versatility in railings and columns. These four patterns may be combined into many forms for a variety of purposes.

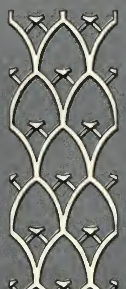
"AMSTERDAM"*



590 PANEL
HGT. 27" **WIDTH** 13 1/2"
WT. LBS. 10.5

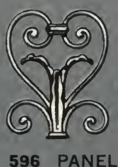
***PATENT PENDING**

"CANTERBURY"*

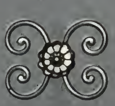


589 PANEL
HGT. 27" **WIDTH** 9"
WT. LBS. 8.8

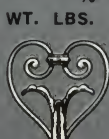
"CAMBRIDGE"



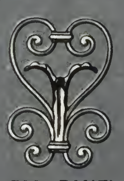
596 PANEL
HGT. 10 1/8" **WIDTH** 8"
WT. LBS. 3.6



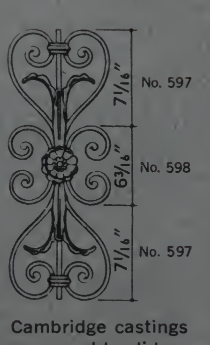
598 PANEL
HGT. 6 3/16" **WIDTH** 8"
WT. LBS. 2.8



597 PANEL
HGT. 9 5/16" **WIDTH** 8"
WT. LBS. 2.6

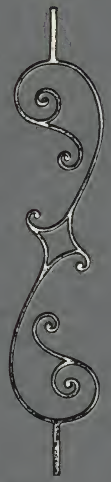


599 PANEL
HGT. 11 7/8" **WIDTH** 8"
WT. LBS. 4.1



Cambridge castings are cored to slide over 1/2" square bar

"CHATEAU"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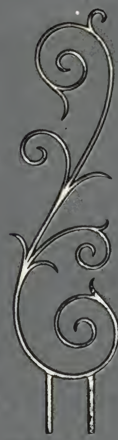
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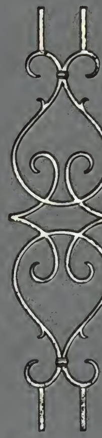
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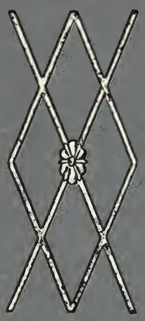
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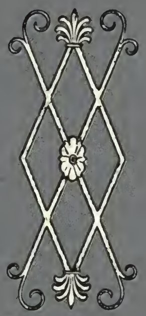
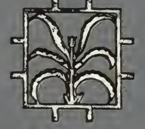

541

NO.	ITEM	HGT.	WIDTH	WT. LBS.
537	RAILING PANEL	37″	8¼″	4.4
538	RAILING PANEL	33″	9¼″	6.8
539	RAILING PANEL	34″	8½″	7.8
540	RAILING PANEL	24″	10⅝″	9.0
541	RAILING PANEL	24″	10⅝″	10.0

"PRIMAVERA"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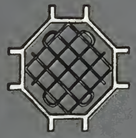
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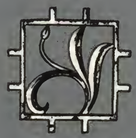
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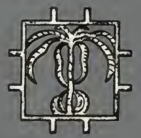
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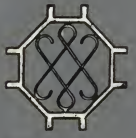
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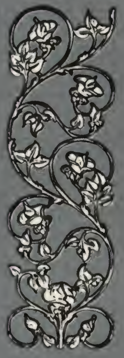
NO.	ITEM	HGT.	WIDTH	WT. LBS.
591	PANEL	10″	10″	3.9
592	PANEL	10″	10″	3.4
593	PANEL	10″	10″	3.2
594	PANEL	10″	10″	3.0
595	PANEL	10″	10″	3.7

"DRESDEN"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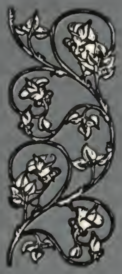
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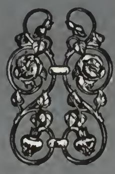
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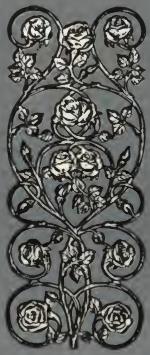
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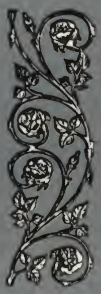
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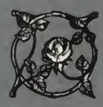
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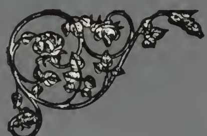
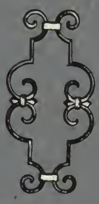

574

NO.	ITEM	HGT.	WIDTH	WT. LBS.
568	RAILING PANEL	28″	8½″	8.7
569	CONTINUOUS DESIGN	21″	8½″	6.5
570	RAILING PANEL collar opening ½″ sq.	12½″	8½″	4.1
571	RAILING PANEL	28″	11″	14.0
572	CONTINUOUS DESIGN	22½″	6⅞″	5.7
573	CORNER ROSETTE	6⅞″	6⅞″	2.3
574	CORNER BRACKET	10¼″	16″	5.0

"FLORENTINE"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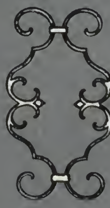
562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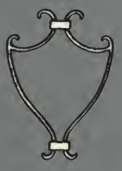
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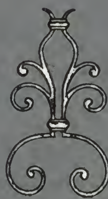
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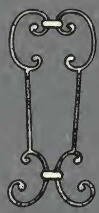
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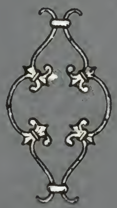
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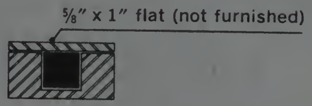
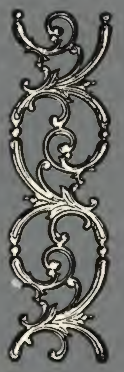
NO.	ITEM	COLLAR OPENING	HGT.	WDTH.	WT. LBS.
559	RAILING PANEL	½″ sq.	15″	7″	3.0
560	RAILING PANEL	½″ sq.	16″	8½″	3.6
561	RAILING PANEL	½″ sq.	12″	8½″	1.9
562	RAILING PANEL	⅝″ sq.	15″	7″	3.8
563	RAILING PANEL	⅝″ sq.	16″	8½″	4.5
564	RAILING PANEL	⅝″ sq.	12″	8½″	2.6
565	RAILING PANEL	½″ sq.	15″	8½″	3.3
566	RAILING PANEL	½″ sq.	16″	7″	2.9
567	RAILING PANEL	½″ sq.	16″	8½″	3.3



TYPICAL SECTION
THRU COLLARS

"REGENCE"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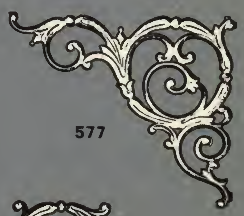
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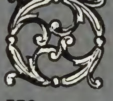

578

NO.	ITEM	HGT.	WIDTH	WT. LBS.
576	RAILING PANEL	29″	8″	10.1
577	CORNER BRACKET	15¼″	18″	8.2
578	CORNER ROSETTE	8″	8″	3.2

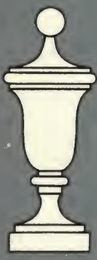
STOCK RAILING COMPONENTS

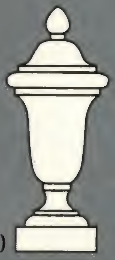
Not to scale

All items in stock for immediate shipment

Aluminum and bronze urns and ball finials are machined from solid stock and are polished and lacquered. Ornamental starting posts are designed to allow for adjustment to varying railing heights without interference with the ornamentation. Ornamental baluster bars, forged spindles and starting posts are forged in one solid piece except for spindles 337 and 338 which have bronze center collars. Bases, collars and flanges are carried in stock for use with posts, balusters, spindles, bar stock and tubing.

URN AND BALL FINIALS


(A)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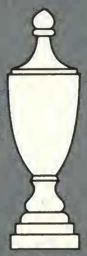
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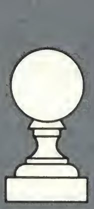

(D)

POLISHED BRONZE (SEE A)

SQUARE BASE	ROUND BASE	HEIGHT	BASE
3123	3023	3"	1"
3124	3024	4"	1¼"
3125	3025	5"	1½"
3126		6"	1¾"

POLISHED ALUMINUM (SEE A)

SQUARE BASE	ROUND BASE	HEIGHT	BASE
3323	3223	3"	1"
3324	3224	4"	1¼"

MALLEABLE IRON (SEE A)

SQUARE BASE	HEIGHT	BASE
3523	3"	1"
3524	4"	1¼"
3525	5"	1½"
3526	6"	1¾"

POLISHED BRONZE (SEE B)

SQUARE BASE	ROUND BASE	HEIGHT	BASE
3133	3033	3"	1"
3134	3034	4"	1½"

POLISHED BRONZE (SEE C)

SQUARE BASE	ROUND BASE	HEIGHT	BASE
....	3053	3½"	⅞"
3164	3064	4"	1¼" SQ. – 1⅛" RD.
....	3073	3"	⅞"

UNPOLISHED BRONZE (SEE C)

SQUARE BASE	ROUND BASE	HEIGHT	BASE
3157	3057	3½"	1" SQ. – ⅞" RD.
3167	3067	4"	1¼" SQ. – 1⅛" RD.
3177	3077	3"	1" SQ. – ⅞" RD.

ALUMINUM (SEE C)

ROUND BASE		HEIGHT	BASE
3273	POLISHED	3"	⅞"
3277	UNPOLISHED	3"	⅞"

POLISHED BRONZE (SEE D)

SQUARE BASE	ROUND BASE	DIA. BALL	HGT.	BASE
3141	3041	1"	1¾"	⅞"
3142	3042	1¼"	2⅜"	1⅛"
3143	3043	1½"	2¾"	1¼"
3144	3044	1¾"	3⅛"	1½"
3145	3045	2"	3½"	1¾"

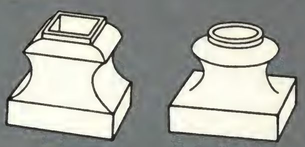
POLISHED ALUMINUM (SEE D)

SQUARE BASE	ROUND BASE	DIA. BALL	HGT.	BASE
3342	3242	1¼"	2⅜"	1⅛"
3343	3243	1½"	2¾"	1¼"

MALLEABLE IRON (SEE D)

SQUARE BASE	ROUND BASE	DIA. BALL	HGT.	BASE
3541	3441	1"	1¾"	⅞"
3542	....	1¼"	2⅜"	1⅛"
3543	....	1½"	2¾"	1¼"
3544	....	1¾"	3⅛"	1½"
3545	....	2"	3⅜"	1¾"

BASES

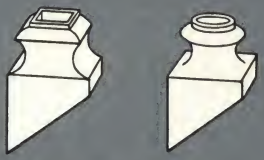


SQUARE HOLE

POLISHED BRONZE	POLISHED ALUM.	CAST IRON	HOLE SIZE
252	752	352	½"
253	753	353	⅝"
254	754	354	¾"
267	767	367	1"
268	768	368	1¼"
269	769	369	1½"

ROUND HOLE

POLISHED BRONZE	POLISHED ALUM.	CAST IRON	HOLE SIZE
255		355	⅜"
256		356	½"
267		357	⅝"
249		349	1"



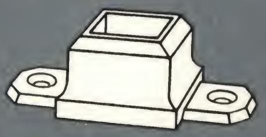
SQUARE HOLE

POLISHED BRONZE	CAST IRON	HOLE SIZE
262	362	½"
263	363	⅝"
	364	¾"

ROUND HOLE

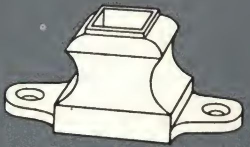
POLISHED BRONZE	CAST IRON	HOLE SIZE
259	359	⅜"
260	360	½"
261	361	⅝"

FLANGES



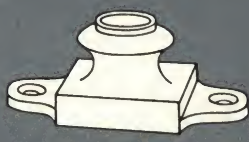
SQUARE HOLE

MALLEABLE IRON	HEIGHT	HOLE SIZE
342	1⅛"	7/16"
344	1⅛"	½"
350	13/16"	½"
351	13/16"	⅝"
398	⅞"	¾"
399	1⅛"	1"



SQUARE HOLE

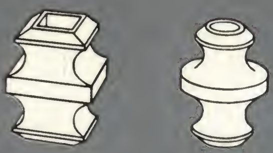
MALLEABLE IRON	HEIGHT	HOLE SIZE
390	1"	½"
391	1"	⅝"
393	1 3/16"	1"



ROUND HOLE

MALLEABLE IRON	HEIGHT	HOLE SIZE
395	1"	⅜"
396	1"	½"
397	1⅛"	⅝"

COLLARS



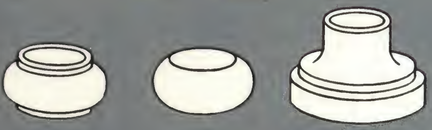
SQUARE HOLE

POLISHED BRONZE	POLISHED ALUMINUM	CAST IRON	HOLE SIZE
265	765	365	½"
266	766	366	⅝"
		348	¾"

ROUND HOLE

POLISHED BRONZE	HOLE SIZE
281	½"
282	⅝"

COLLARS AND BASES



NO. 72
272

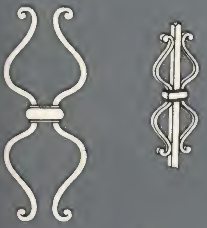
NO. 73
74
274

NO. 75
77
80

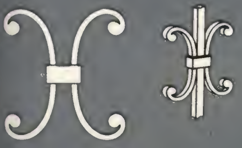
ROUND HOLE

TURNED STEEL	TURNED BRASS	HOLE SIZE
75		⅜"
77	80	½"
73		⅜"
72	272	½"
74	274	⅝"

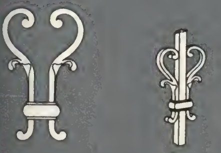
ORNAMENTAL BALUSTER COLLARS



MALLEABLE IRON	HOLE SIZE	WIDTH	HGT.
546	½"	3"	7¾"
547	⅝"	3"	7¾"

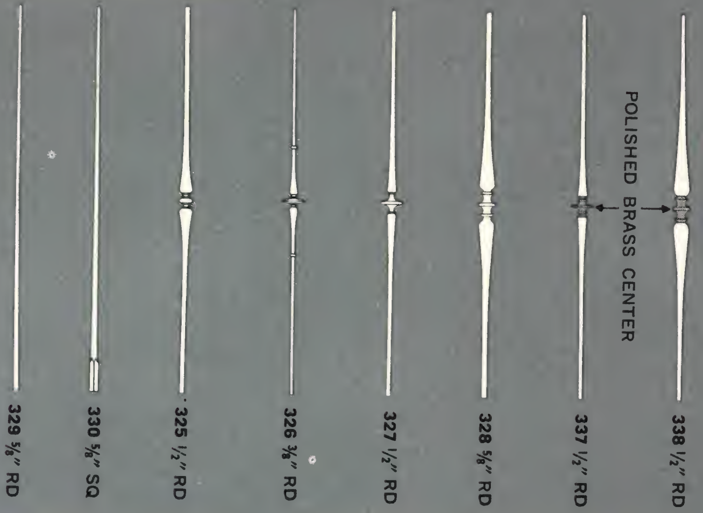


MALLEABLE IRON	HOLE SIZE	WIDTH	HGT.
543	½"	4¾"	4⅜"
535	⅝"	4¾"	4⅜"



MALLEABLE IRON	HOLE SIZE	WIDTH	HGT.
544	½"	3"	4¾"
545	⅝"	3"	4¾"

FORGED SPINDLES STEEL – LENGTH 36"

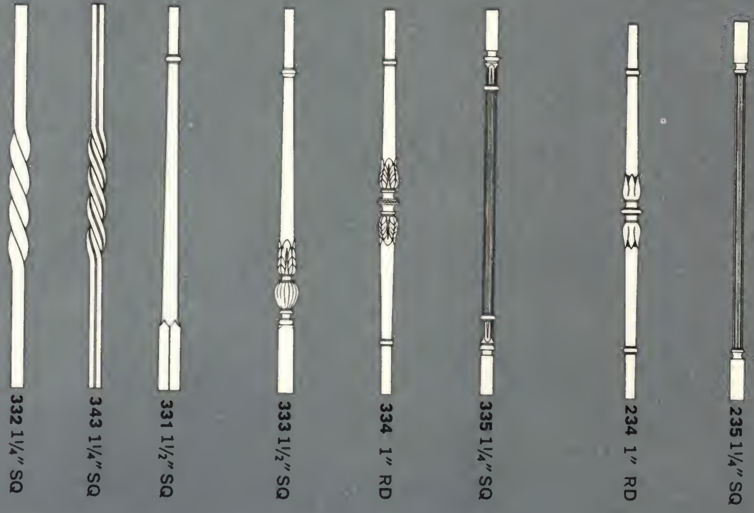


FORGED STARTING POSTS STEEL – 36"

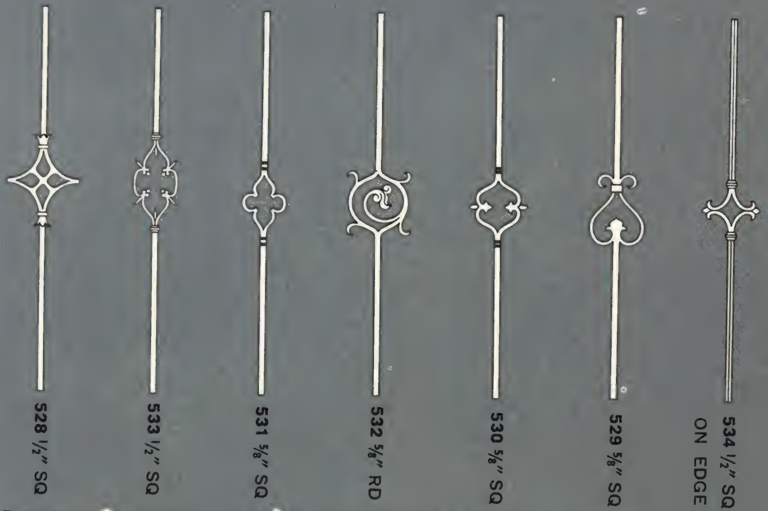
ORNAMENTAL STARTING POSTS LENGTH 36"

MALLEABLE IRON

BRONZE – NEW STOCK ITEMS

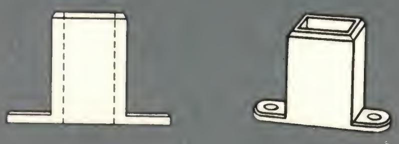


ORNAMENTAL BALUSTER BARS STEEL – LENGTH 39"

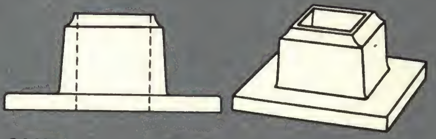


DIMENSIONS SHOWN INDICATE THICKNESS AT LOWER END.

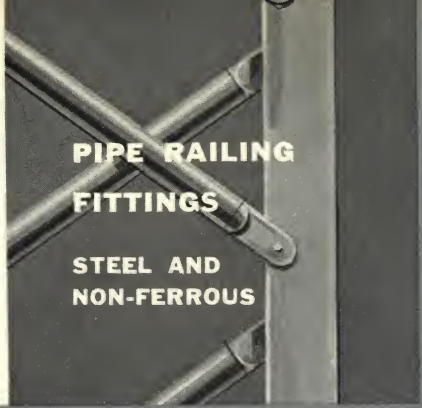
TUBE SOCKETS



CAST IRON	HOLE SIZE	HGT.
615	¾"	1¾"
616	1"	2¼"



CAST IRON	HOLE SIZE	BASE	HGT.
201	1"	3"	1⅜"
202	1¼"	3¼"	1½"
203	1½"	3½"	1¾"
204	2"	4"	1¾"
205	2½"	4½"	1⅞"
206	3"	5³⁄₁₆"	2⅜"



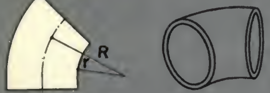
PIPE RAILING FITTINGS

STEEL AND NON-FERROUS

All items in stock for immediate shipment

Aluminum and Bronze fittings are satin finished and lacquered except as noted. Aluminum fittings are of Alloy 214 and are suitable for Alumiliting after removal of lacquer. Bronze fittings are of an architectural bronze alloy and match the color of bronze tubing, shapes and bars. Pipe Rail Brackets are furnished with screw holes for fastening to wall and to pipe. Stainless Steel Fittings are of Type 302 18-8 Stainless, polished to a No. 4 (180 grit) finish to match our stainless pipe.

45° ELBOW STEEL



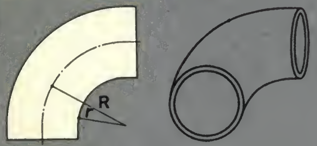
SHORT RADIUS

NO.	PIPE	r	R
929	1″	1″	1¹¹⁄₁₆″
930	1¼″	1″	1¹³⁄₁₆″
931	1½″	1″	1¹⁵⁄₁₆″
932	2″	1″	2³⁄₁₆″

LONG RADIUS

NO.	PIPE	r	R
933	1¼″	2″	2¹³⁄₁₆″
934	1½″	2″	2¹⁵⁄₁₆″

90° ELBOW STEEL



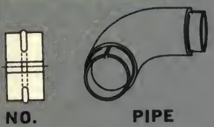
SHORT RADIUS

NO.	PIPE	r	R
917	1″	1″	1¹¹⁄₁₆″
918	1¼″	1″	1¹³⁄₁₆″
919	1½″	1″	1¹⁵⁄₁₆″
920	2″	1″	2³⁄₁₆″

LONG RADIUS

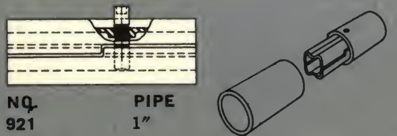
NO.	PIPE	r	R
925	1¼″	2″	2¹³⁄₁₆″
926	1½″	2″	2¹⁵⁄₁₆″

CONNECTOR STEEL



NO.	PIPE	
951	1″	
952	1¼″	
953	1½″	
954	2″	
961*	1″	For connecting standard pipe fittings to light weight structural pipe.
962*	1¼″	
963*	1½″	
964*	2″	

PIPE SPLICE LOCK STEEL

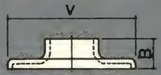


NO.	PIPE
921	1″
922	1¼″
923	1½″
924	2″

A single screw locks pipe permanently.

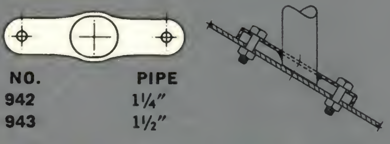
*NEW STOCK ITEM

ROUND SLIP FLANGE STEEL



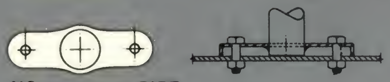
NO.	PIPE	B	V
913	¾″	¾″	3¼″
914	1″	⅞″	3¾″
910	1¼″	⅞″	3¾″
911	1½″	⅞″	4¼″
912	2″	⅞″	4¾″

OVAL POST FLANGE STEEL (ANGLE)



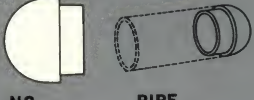
NO.	PIPE
942	1¼″
943	1½″

OVAL POST FLANGE STEEL (FLOOR)



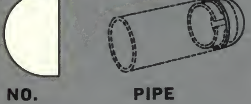
NO.	PIPE
927	1¼″
928	1½″

DRIVE ON CAP STEEL



NO.	PIPE
906	1″
907	1¼″
908	1½″
909	2″

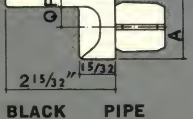
WELD ON CAP STEEL



NO.	PIPE
936	1″
937	1¼″
938	1½″
939	2″

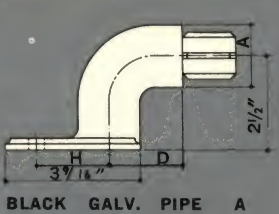
SQUARE POST FITTING

MALLEABLE IRON (BLACK ONLY)



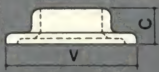
BLACK	PIPE	A	P	Q
601	1¼″	1²¹⁄₃₂″	⅜″	²⁹⁄₆₄″
602	1½″	1²⁹⁄₃₂″	⁷⁄₁₆″	³³⁄₆₄″

WALL RETURN CAST IRON



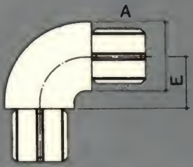
BLACK	GALV.	PIPE	A	D	H
604	1604	1¼″	1²¹⁄₃₂″	1¹⁵⁄₁₆″	1⅝″
605	1605	1½″	1²⁹⁄₃₂″	2¹⁄₁₆″	1¹¹⁄₁₆″

SLIP FLANGE CAST IRON



BLACK	GALV.	PIPE	V	C
613	1613	¾″	3⅜″	1³⁄₃₂″
614	1614	1″	3⅝″	1¹¹⁄₃₂″
610	1610	1¼″	3⅞″	1¹¹⁄₁₆″
611	1611	1½″	4³⁄₁₆″	2″
612	1612	2″	4⅝″	2⁷⁄₁₆″

90° ELBOW MALLEABLE IRON

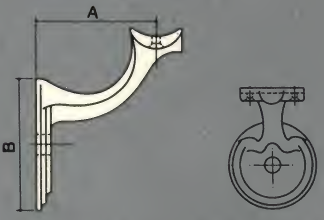


BLACK	GALV.	PIPE	A	E
617	1617	1″	1⁵⁄₁₆″	1″
618	1618	1¼″	1²¹⁄₃₂″	1¼″
619	1619	1½″	1²⁹⁄₃₂″	1½″
620	1620	2″	2⅜″	1⅞″

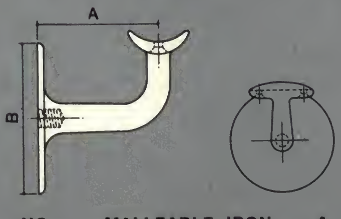
PIPE PLUG CAST IRON

BLACK	GALV.	PIPE
606	1606	1″
607	1607	1¼″
608	1608	1½″
609	1609	2″

BRACKET



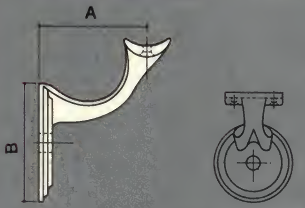
NO.	MALLEABLE IRON	A	B
306	BLACK	3″	3¼″
1306	GALVANIZED	3″	3¼″
382	BLACK	2½″	2¾″
1382	GALVANIZED	2½″	2¾″
	CAST IRON		
380	BLACK	2½″	2¾″



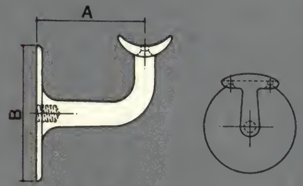
NO.	MALLEABLE IRON	A	B
378	BLACK	2½″	3⅛″
1378	GALVANIZED	2½″	3⅛″
386	BLACK	3″	3⅛″
1386	GALVANIZED	3″	3⅛″
	CAST IRON		
374	BLACK	2½″	3½″

PIPE HANDRAIL FITTINGS, POLISHED (FLUSH TYPE)

PIPE BRACKET (NON-FERROUS)

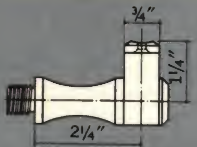


		A	B
384	ALUMINUM	2½″	2¾″
388	BRONZE	2½″	2¾″
316	ALUMINUM	3″	3¼″
318	BRONZE	3″	3¼″

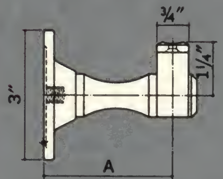


		A	B
376	ALUMINUM	2½″	3⅛″
375	BRONZE	2½″	3⅛″
275	STAINLESS	2½″	3⅛″
389	ALUMINUM	3⅛″	3¾″
319	BRONZE	3⅛″	3¾″

ADJUSTABLE BRACKET

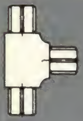


322 ALUMINUM (post mounting)



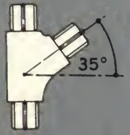
			A
307	ALUMINUM	(wall mounting)	2½″
308	ALUMINUM	(wall mounting)	3″

90° TEE



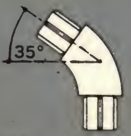
NO.		PIPE
721	ALUMINUM	1¼″
722	ALUMINUM	1½″
723	ALUMINUM	2″
821	BRONZE	1¼″
822	BRONZE	1½″

ANGLE TEE



NO.		PIPE
736	ALUMINUM	1¼″
737	ALUMINUM	1½″

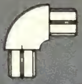
VERTICAL ANGLE ELBOW



NO.		PIPE
733	ALUMINUM	1¼″
734	ALUMINUM	1½″

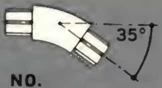
*NEW STOCK ITEM

90° ELBOW



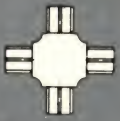
NO.		PIPE
718	ALUMINUM	1¼″
719	ALUMINUM	1½″
720	ALUMINUM	2″
818	BRONZE	1¼″
819	BRONZE	1½″
218	STAINLESS	1¼″
219	STAINLESS	1½″

HORIZONTAL ANGLE ELBOW



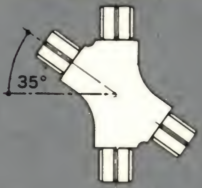
NO.		PIPE
730	ALUMINUM	1¼″
731	ALUMINUM	1½″

90° CROSS



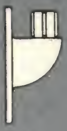
NO.		PIPE
724	ALUMINUM	1¼″
725	ALUMINUM	1½″
726	ALUMINUM	2″
824	BRONZE	1¼″
825	BRONZE	1½″

ANGLE CROSS



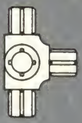
NO.		PIPE
739	ALUMINUM	1¼″
740	ALUMINUM	1½″

FACIA FLANGE*



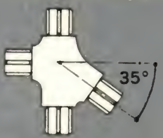
NO.		PIPE
745	ALUMINUM	1¼″
746	ALUMINUM	1½″

90° TEE (SIDE OUTLET*)



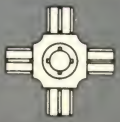
NO.		PIPE
791	ALUMINUM	1¼″
792	ALUMINUM	1½″

HALF ANGLE CROSS*



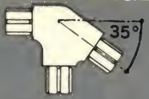
NO.		PIPE
789	ALUMINUM	1¼″
790	ALUMINUM	1½″

90° CROSS (SIDE OUTLET*)



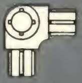
NO.		PIPE
794	ALUMINUM	1¼″
795	ALUMINUM	1½″

HALF ANGLE TEE*



NO.		PIPE
786	ALUMINUM	1¼″
787	ALUMINUM	1½″

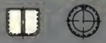
90° ELBOW (SIDE OUTLET*)



NO.		PIPE
798	ALUMINUM	1¼″
799	ALUMINUM	1½″

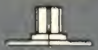
ADAPTER

For stainless or aluminum thinwall pipe. Fits over plug of flush fittings.



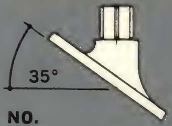
NO.			PIPE
780	ALUMINUM	for Schedule 5	1¼″
781	ALUMINUM	for Schedule 10	1¼″
782	ALUMINUM	for Schedule 5	1½″
783	ALUMINUM	for Schedule 10	1½″

FLOOR FLANGE



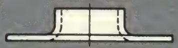
NO.		PIPE
727	ALUMINUM	1¼″
728	ALUMINUM	1½″
729	ALUMINUM	2″
827	BRONZE	1¼″
828	BRONZE	1½″

ANGLE FLANGE



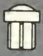
NO.		PIPE
742	ALUMINUM	1¼″
743	ALUMINUM	1½″

COVER FLANGE



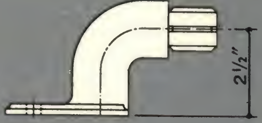
NO.		PIPE
714	ALUMINUM	1″
710	ALUMINUM	1¼″
711	ALUMINUM	1½″
712	ALUMINUM	2″
810	BRONZE	1¼″
811	BRONZE	1½″
210	STAINLESS	1¼″
211	STAINLESS	1½″

PIPE PLUG



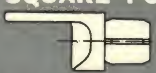
NO.		PIPE
707	ALUMINUM	1¼″
708	ALUMINUM	1½″
709	ALUMINUM	2″
807	BRONZE	1¼″
808	BRONZE	1½″
207	STAINLESS	1¼″
208	STAINLESS	1½″

WALL RETURN

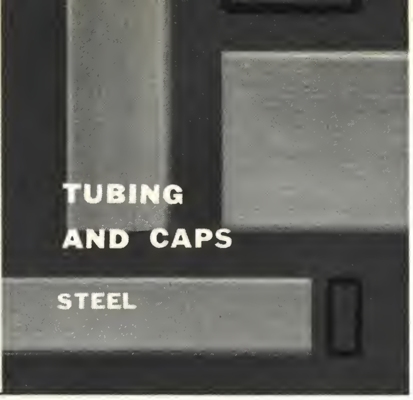


NO.		PIPE
704	ALUMINUM	1¼″
705	ALUMINUM	1½″
804	BRONZE	1¼″
805	BRONZE	1½″
215	STAINLESS	1¼″
216	STAINLESS	1½″

SQUARE POST FITTING



NO.		PIPE
701	ALUMINUM	1¼″
702	ALUMINUM	1½″

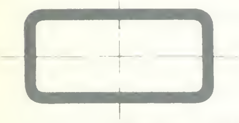


TUBING AND CAPS

STEEL

Tubing with 11 gauge and heavier wall has slightly rounded corners with the radius of the corners being governed by the wall thickness. Tubing can be furnished cut to specified lengths and can be galvanized to order if required. Additional sizes up to 12″ x 12″ square and up to 10″ x 14″ rectangular with walls up to ½″ thick, as well as Copper Bearing Tubing can be obtained from mill. Where wall thickness according to gauge No., decimal and fractional inch are not identical, the decimal measurement is exact, the others are approximate. Elements of sections have been calculated on a theoretical basis. While the figures have been ascertained with care, they cannot be guaranteed.

The material is mechanical welded tubing except as noted.



All items in stock for immediate shipment

RECTANGULAR STEEL TUBING

STOCK SIZES						ELEMENTS OF SECTIONS						
O.D. INCHES	**THICKNESS:** B. W. GAUGE	DECIMAL INCH	FRACTION INCH	**STOCK** LENGTH FEET	**WEIGHT** LB./FT.	**AREA** SQ. IN.	**MAJOR AXIS:** MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION	**MINOR AXIS:** MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
⅜ x ¾	16	.065	¹⁄₁₆	20	.4950	.129	.002	.013	.139	.008	.022	.253
⅜ x 1	16	.065	¹⁄₁₆	20	.6055	.162	.003	.018	.143	.018	.036	.332
½ x 1¼	16	.065	¹⁄₁₆	20	.7160	.211	.008	.033	.198	.038	.061	.425
⅝ x 2	14	.083	⁵⁄₆₄	20	1.458	.408	.026	.083	.252	.181	.181	.665
¾ x 1½	16	.065	¹⁄₁₆	20	.9370	.276	.025	.068	.304	.078	.104	.532
¾ x 1½	14	.083	⁵⁄₆₄	20	1.176	.346	.031	.082	.297	.095	.127	.526
1 x 1¼	16	.065	¹⁄₁₆	20	.9370	.276	.043	.085	.394	.061	.097	.470
1 x 1¼	14	.083	⁵⁄₆₄	20	1.176	.346	.052	.104	.387	.074	.119	.463
1 x 1½	16	.065	¹⁄₁₆	20	1.048	.308	.050	.100	.402	.095	.126	.555
1 x 1½	14	.083	⁵⁄₁₆	20	1.317	.387	.060	.121	.395	.116	.155	.548
1 x 1½	11	.120	⅛	20	1.844	.542	.079	.158	.381	.155	.206	.534
1 x 2	16	.065	¹⁄₁₆	20	1.269	.373	.064	.128	.414	.193	.193	.718
1 x 2	14	.083	⁵⁄₆₄	20	1.600	.470	.078	.156	.407	.238	.238	.711
1 x 2	11	.120	⅛	20	2.252	.662	.102	.204	.392	.212	.322	.697
1 x 2½	14	.083	⁵⁄₆₄	20	1.882	.553	.095	.191	.415	.322	.335	.869
1 x 3	14	.083	⁵⁄₆₄	20	2.164	.636	.113	.226	.421	.668	.445	1.025
1 x 3½	14	.083	⁵⁄₆₄	20	2.446	.719	.130	.261	.426	.997	.570	1.177
1¼ x 1¾	14	.083	⁵⁄₆₄	20	1.600	.470	.117	.187	.498	.199	.228	.651
1¼ x 2	14	.083	⁵⁄₆₄	20	1.741	.512	.131	.209	.506	.276	.276	.734
1¼ x 2½	14	.083	⁵⁄₆₄	20	2.023	.595	.159	.255	.517	.479	.383	.897
1¼ x 3	14	.083	⁵⁄₆₄	20	2.305	.678	.187	.300	.526	.758	.505	1.057
1¼ x 3½	14	.083	⁵⁄₆₄	20	2.587	.805	.227	.362	.530	1.179	.673	1.213
1½ x 2	14	.083	⁵⁄₆₄	20	1.882	.553	.200	.266	.601	.314	.314	.753
1½ x 2	11	.120	⅛	20	2.660	.781	.270	.340	.588	.429	.429	.742
1½ x 2½	14	.083	⁵⁄₆₄	20	2.164	.636	.241	.322	.616	.540	.432	.921
1½ x 2½	11	.120	⅛	20	3.068	.902	.326	.435	.601	.741	.593	.906
1½ x 2½	9	.145	⁹⁄₆₄	22-24	3.510 *	1.096	.382	.510	.590	.879	.703	.895
1½ x 2½	7	.188	³⁄₁₆	22-24	4.430 *	1.363	.452	.602	.578	1.056	.845	.880
1½ x 3	16	.065	¹⁄₁₆	20	1.932	.568	.229	.305	.635	.676	.451	1.091
1½ x 3	14	.083	⁵⁄₆₄	20	2.446	.720	.283	.377	.627	.845	.563	1.084
1½ x 3	11	.120	⅛	20	3.476	1.022	.384	.512	.613	1.167	.778	1.069
1½ x 3	7	.180	³⁄₁₆	24	5.272	1.490	.518	.690	.596	1.627	1.085	1.045
1½ x 3½	16	.065	¹⁄₁₆	20	2.153	.633	.262	.350	.644	.990	.566	1.250
1½ x 3½	14	.083	⁵⁄₆₄	20	2.728	.802	.325	.433	.636	1.240	.708	1.243
2 x 3	14	.083	⁵⁄₆₄	20	2.728	.802	.543	.543	.823	1.021	.681	1.128
2 x 3	11	.120	⅛	20	3.884	1.142	.716	.716	.792	1.399	.933	1.107
2 x 3	7	.180	³⁄₁₆	24	5.911	1.677	1.030	1.030	.784	1.985	1.324	1.088
2 x 4	14	.083	⁵⁄₆₄	20	3.293	.968	.696	.696	.848	2.053	1.027	1.456
2 x 4	11	.120	⅛	20	4.700	1.382	.958	.958	.833	2.870	1.435	1.441
2 x 4	7	.180	³⁄₁₆	24	6.903	2.030	1.333	1.333	.810	4.075	2.038	1.417
2 x 4	4	.238	¼	24	8.950	2.630	1.613	1.613	.781	5.095	2.548	1.395
2 x 5	7	.180	³⁄₁₆	24	8.129	2.490	1.674	1.674	.820	7.453	2.981	1.729
2 x 10	7	.188	³⁄₁₆	24	14.420†	4.269	3.060	3.060	.850	42.200	8.440	3.150
2 x 12	7	.188	³⁄₁₆	24	16.980†	5.019	3.660	3.660	.860	69.900	11.650	3.740
2½ x 4	7	.180	³⁄₁₆	24	7.516 †	2.303	2.315	1.832	1.005	4.909	2.454	1.460
2½ x 5	7	.180	³⁄₁₆	24	8.743	2.671	2.812	2.249	1.025	8.522	3.409	1.786
3 x 4	11	.120	⅛	24	5.800	1.622	2.412	1.608	1.219	3.730	1.865	1.516
3 x 4	7	.180	³⁄₁₆	24	8.129	2.390	3.419	2.279	1.196	5.390	2.695	1.502
3 x 4	4	.238	¼	24	10.56	3.089	3.775	2.517	1.105	5.979	2.990	1.391
3 x 5	7	.180	³⁄₁₆	24	9.350	2.859	4.288	2.859	1.224	9.631	3.852	1.833
3 x 6	7	.180	³⁄₁₆	24	10.57	3.242	5.032	3.355	1.246	15.103	5.034	2.158
3 x 6	4	.238	¼	24	14.45	4.250	6.338	4.225	1.221	19.339	6.446	2.133
3 x 8	7	.188	³⁄₁₆	24	13.04†	3.830	6.286	4.190	1.281	29.892	7.473	2.794
3 x 8	4	.250	¼	24	17.11 †	5.089	7.567	5.045	1.219	36.531	9.133	2.679
4 x 6	7	.180	³⁄₁₆	24	11.81	3.610	9.333	4.666	1.608	17.580	5.860	2.207
4 x 6	4	.238	¼	24	15.40	4.750	12.432	6.216	1.618	23.474	7.825	2.223
4 x 8	7	.188	³⁄₁₆	24	14.27 †	4.190	11.961	5.981	1.690	35.397	8.849	2.906
4 x 8	4	.250	¼	24	19.55 †	5.589	14.782	7.391	1.626	44.042	11.010	2.807

***Hot Rolled Butt Welded Tubing (Rectangular Pipe)** **†Espro Structural Tubing**

All items in stock for immediate shipment

SQUARE STEEL TUBING

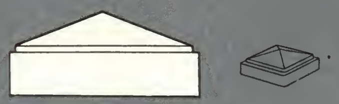
Mechanical welded, except as noted.

STOCK SIZES						ELEMENTS OF SECTIONS			
O.D. INCHES	**THICKNESS:** B. W. GAUGE	DECIMAL INCH	FRACTION INCH	**STOCK** LENGTH FEET	**WEIGHT** LB./FT.	AREA SQ. IN.	MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
3/8	18	.049	3/64	20	.2172	.064	.001	.006	.135
1/2	20	.035	1/32	20	.2213	.065	.002	.009	.190
1/2	18	.049	3/64	20	.3005	.088	.003	.012	.185
1/2	16	.065	1/16	20	.3845	.113	.004	.015	.180
5/8	20	.035	1/32	20	.2808	.083	.005	.015	.241
5/8	18	.049	3/64	20	.3838	.113	.006	.020	.236
5/8	16	.065	1/16	20	.4950	.146	.008	.025	.230
3/4	20	.035	1/32	20	.3043	.100	.009	.023	.292
3/4	16	.065	1/16	20	.6055	.178	.014	.038	.281
3/4	15	.076	1/16	16	.750**	.196	.016	.040	.278
3/4	11	.120	1/8	20	1.030	.302	.021	.055	.262
7/8	20	.035	1/32	20	.3998	.118	.014	.032	.343
7/8	16	.065	1/16	20	.7160	.211	.023	.053	.332
1	20	.035	1/32	20	.4593	.135	.021	.042	.394
1	18	.049	3/64	20	.6337	.186	.028	.056	.389
1	16	.065	1/16	20	.8265	.243	.036	.071	.383
1	15	.073	1/16	16	.920**	.267	.039	.077	.380
1	14	.083	5/64	20	1.035	.304	.043	.086	.376
1	11	.120	1/8	20	1.436	.422	.056	.111	.363
1 1/8	16	.065	1/16	20	.9370	.276	.052	.092	.434
1 1/4	20	.035	1/32	20	.5783	.170	.042	.067	.496
1 1/4	18	.049	3/64	20	.8003	.235	.057	.091	.491
1 1/4	16	.065	1/16	20	1.048	.308	.072	.116	.485
1 1/4	14	.083	5/64	20	1.317	.387	.088	.141	.478
1 1/4	13	.090	3/32	20	1.500**	.437	.098	.157	.473
1 1/4	11	.120	1/8	20	1.844	.542	.117	.187	.464
1 1/4	10	.135	9/64	22-24	1.960*	.602	.127	.203	.459
1 1/4	7	.188	3/16	22-24	2.620*	.799	.155	.248	.440
1 1/2	20	.035	1/32	20	.6973	.205	.073	.098	.598
1 1/2	18	.049	3/64	20	.9669	.284	.100	.133	.592
1 1/2	16	.065	1/16	20	1.269	.373	.128	.171	.586
1 1/2	14	.083	5/64	20	1.600	.470	.158	.211	.580
1 1/2	11	.120	1/8	20	2.252	.662	.212	.282	.565
1 1/2	10	.140	9/64	22-24	2.500*	.762	.237	.316	.558
1 1/2	7	.188	3/16	22-24	3.230*	.987	.289	.385	.541
1 3/4	16	.065	1/16	20	1.490	.438	.208	.237	.688
1 3/4	14	.083	5/64	20	1.882	.553	.257	.294	.682
1 3/4	11	.120	1/8	20	2.660	.782	.348	.439	.667
2	16	.065	1/16	20	1.711	.503	.314	.314	.790
2	14	.083	5/64	20	2.164	.636	.391	.391	.783
2	11	.120	1/8	20	3.068	.902	.534	.534	.769
2	9	.145	9/64	22-24	3.510*	1.076	.621	.621	.760
2	7	.188	3/16	22-24	4.430*	1.363	.754	.754	.744
2	4	.250	1/4	22-24	5.730*	1.750	.912	.912	.722
2 1/2	16	.065	1/16	20	2.153	.633	.626	.501	.995
2 1/2	14	.083	5/64	20	2.728	.802	.782	.626	.987
2 1/2	11	.120	1/8	20	3.884	1.142	1.081	.865	.973
2 1/2	7	.188	3/16	22-24	5.670*	1.739	1.559	1.247	.947
2 1/2	4	.250	1/4	22-24	7.290*	2.250	1.922	1.538	.924
3	16	.065	1/16	20	2.595	.763	1.096	.731	1.199
3	14	.083	5/64	20	3.293	.968	1.374	.916	1.191
3	11	.120	1/8	20 & 24	4.887	1.382	1.914	1.274	1.177
3	7	.180	3/16	20 & 24	6.903	2.109	2.793	1.862	1.151
3	4	.238	1/4	24	8.940	2.750	3.495	2.330	1.127
3 1/2	11	.120	1/8	24	5.800	1.622	3.093	1.767	1.381
3 1/2	7	.180	3/16	24	8.129	2.484	4.558	2.605	1.355
4	11	.120	1/8	20 & 24	6.331	1.862	4.677	2.339	1.585
4	7	.180	3/16	20 & 24	9.350	2.859	6.944	3.472	1.558
4	4	.238	1/4	24	12.18	3.750	8.828	4.414	1.534
5	7	.180	3/16	24	11.81†	3.610	13.986	5.595	1.693
5	4	.250	1/4	24	15.40†	4.589	16.322	6.529	1.886
6	4	.250	1/4	24	19.55†	5.750	31.745	10.582	2.325

*Hot Rolled Butt Welded Tubing (Square Pipe)
**Elyria High Carbon Structural Tubing
†Espro Structural Tubing

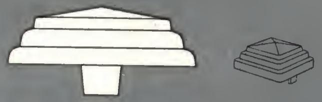
POST CAPS

CAP TYPE A



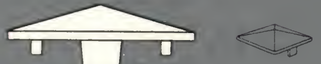
CAST IRON	POLISHED BRONZE	POLISHED ALUM.	SIZE
5615			1½″ x 1½″
5620	5720	5820	2″ x 2″
5625			2½″ x 2½″
5630	5730	5830	3″ x 3″
5635			3½″ x 3½″
5640	5740	5840	4″ x 4″
5650			5″ x 5″
5660			6″ x 6″
5632			3″ x 2″
5642			4″ x 2″
56425			4″ x 2½″
5643		5843	4″ x 3″
5652			5″ x 2″
56525			5″ x 2½″
5653			5″ x 3″
5663	5763	5863	6″ x 3″
5664		5864	6″ x 4″
5683		5883	8″ x 3″
5684	5784	5884	8″ x 4″

CAP TYPE B



CAST IRON	SIZE
5230	3″ x 3″
5235	3½″ x 3½″
5240	4″ x 4″

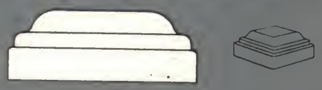
CAP TYPE C



CAST IRON	SIZE
5415	1½″ x 1½″
5420	2″ x 2″
5425	2½″ x 2½″
5430	3″ x 3″
5440	4″ x 4″

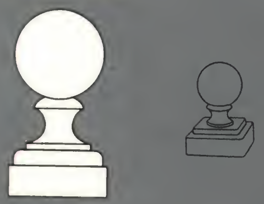
CAP TYPE W

Snug fit – does not require fastening



PRESSED STEEL	STAINLESS STEEL	SIZE
5930	5933	3″ x 3″
5935		3½″ x 3½″
5940	5944	4″ x 4″

BALL CAP



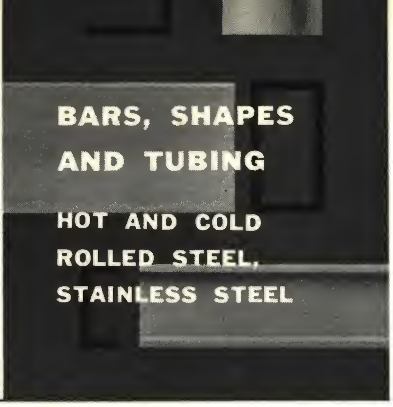
CAST IRON	SIZE	BALL DIA.	HEIGHT
5320	2″ x 2″	1 13/16″	3¾″
5325	2½″ x 2½″	2⅛″	4⅛″
5330	3″ x 3″	2 3/16″	4⅝″
5335	3½″ x 3½″	2½″	5⅛″
5340	4″ x 4″	2¾″	5½″

POST CAP

CAST IRON (Former No. 411)

5411 **SIZE** 1″ x 1″

For 1″ x 1″ x .073″ structural tubing.
Snug fit – does not require fastening.



BARS, SHAPES AND TUBING

HOT AND COLD ROLLED STEEL, STAINLESS STEEL

All items in stock for immediate shipment

COLD FINISHED STEEL SHAPES

COLD ROLLED ANGLES

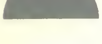
20′ LENGTHS

SIZE	WT. LBS. PER FT.
EQUAL LEGS	
½″ x ½″ x ⅛″	.38
⅝″ x ⅝″ x ⅛″	.48
¾″ x ¾″ x ⅛″	.59
1″ x 1″ x ⅛″	.80
1″ x 1″ x 3/16″	1.16
1¼″ x 1¼″ x ⅛″	1.01
1¼″ x 1¼″ x 3/16″	1.48
1½″ x 1½″ x ⅛″	1.23
1½″ x 1½″ x 3/16″	1.80
2″ x 2″ x ⅛″	1.65
2″ x 2″ x 3/16″	2.44
UNEQUAL LEGS	
1″ x ⅝″ x ⅛″	.64
1¼″ x ¾″ x ⅛″	.80
1½″ x 1″ x ⅛″	1.01
2″ x 1″ x ⅛″	1.23

COLD ROLLED CHANNELS

20′ LENGTHS
*22′ LENGTHS

NO.	SIZE	WT. LBS. PER FT.
4730	½″ x ½″ x .093″	.40
4732	¾″ x ¾″ x .093″	.57
4734	1″ x 1″ x .109″	1.03
4744	1¼″ x 1¼″ x .109″	1.32
4750	1½″ x 1½″ x .109″	1.59
4752	2″ x 2″ x .125″	2.41
4735*	⅝″ x 5/16″ x .078″	.29
4736*	¾″ x ⅜″ x .083″	.40
4754	1½″ x 1″ x .109″	1.22
4759	1¾″ x 1⅛″ x .109″	1.40
4760	2″ x 1″ x .125″	1.59
4753	2⅜″ x 2 3/16″ x .156″	3.41

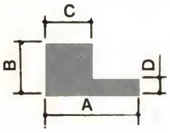


COLD FINISHED HALF ROUNDS

20′ LENGTHS

SIZE	WT. LBS. PER FT.
½″ x ¼″	.334
⅝″ x 5/16″	.552
¾″ x ⅜″	.751
1″ x ½″	1.335
1¼″ x ⅝″	2.086

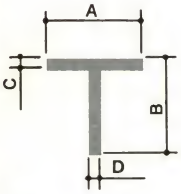
HOT ROLLED STEEL SHAPES



HOT ROLLED ANGLES

20′ LENGTHS

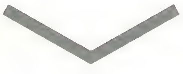
NO.	SIZE		THICKNESS		WT. LBS. PER FT.
	A	B	C	D	
4700	⅜″	⅜″	3/32″	3/32″	.19
4709	¾″	¾″	1/16″	1/16″	.39
4460	1″	9/16″	½″	3/16″	1.36



HOT ROLLED TEES

20′ LENGTHS

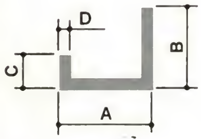
NO.	SIZE		THICKNESS		WT. LBS. PER FT.
	A	B	C	D	
4618	⅞″	9/16″	⅛″	¼″	.75
4619	25/32″	1″	⅛″	⅛″	.65



120° HOT ROLLED ANGLE

20′ LENGTHS

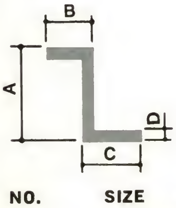
NO.	SIZE	WT. LBS. PER FT.
4639	1″ x 1″ x ⅛″	.72



HOT ROLLED CHANNELS

20′ LENGTHS

NO.	SIZE				WT. LBS. PER FT.
	A	B	C	D	
4650	1″	⅞″	⅜″	⅛″	.86
4656	1⅜″	1″	1 3/32″	⅛″	1.27
4731	⅝″	⅝″	⅝″	3/32″	.47
4757	1 11/16″	¾″	¾″	⅛″	1.20
4758	1 9/16″	1″	1″	⅛″	1.34
4762	1½″	¾″	¾″	⅛″	1.17



HOT ROLLED ZEES

20′ LENGTHS

NO.	SIZE				WT. LBS. PER FT.
	A	B	C	D	
4720	1⅜″	¾″	1 3/16″	⅛″	1.24
4721	1 3/16″	⅝″	¾″	⅛″	.94
4722	1″	½″	⅝″	⅛″	.74

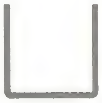
STAINLESS STEEL SHAPES AND TUBING

TYPE 302 (18-8)
No. 2 bright mill finish except as noted.

ROLLED ANGLES

STAINLESS STEEL
20′ LENGTHS

SIZE
½″ x ½″ x .062″
⅝″ x ⅝″ x .062″
¾″ x ¾″ x .062″
1″ x 1″ x .062″
1¼″ x 1¼″ x .062″
1½″ x 1½″ x .062″



ROLLED CHANNELS

STAINLESS STEEL
20′ LENGTHS
*22′ LENGTHS

SIZE
½″ x ½″ x .062″
⅝″ x 5/16″ x .078″*
¾″ x ⅜″ x .062″
¾″ x ¾″ x .062″
1″ x ½″ x .062″
1″ x 1″ x .062″
1¼″ x ½″ x .062″
1½″ x ½″ x .062″
2″ x ½″ x .062″

SQUARE TUBING

STAINLESS STEEL
20′ LENGTHS

SIZE WALL THICKNESS	WT. LBS. PER FT.
¾″ x ¾″ x .049″	.472
1″ x 1″ x .049″	.640
1″ x 1″ x .065″	.835
1¼″ x 1¼″ x .065″	1.058
1½″ x 1½″ x .065″	1.281
2″ x 2″ x .065″	1.728

RECTANGULAR TUBING

STAINLESS STEEL
20′ LENGTHS
*21′-1″ LENGTHS

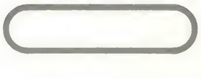
SIZE WALL THICKNESS	WT. LBS. PER FT.
¾″ x 1½″ x .065″	.946
1″ x 1½″ x .065″	1.058
1″ x 2″ x .065″	1.281
1¼″ x 2½″ x .065″	1.616
1¾″ x 3″ x .065″*	2.062
1¾″ x 4″ x .065″*	2.509

ROUND TUBING

STAINLESS STEEL
20′ LENGTHS

SCHEDULE 5 PIPE SIZES
POLISHED TO A NO. 4 FINISH
(180 GRIT) AND MASKED

NOMINAL SIZE	O.D.	WALL THICKNESS	WT. LBS. PER FT.
1¼″	1.660″	.065″	1.110
1½″	1.900″	.065″	1.274



OVAL TUBING

STAINLESS STEEL
20′ LENGTHS

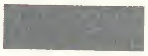
SIZE	WT. LBS. PER FT.
† 2″ x ½″ x .065″	.944

† NEW STOCK ITEM

BARS, SHAPES AND TUBING

ARCHITECTURAL BRONZE

All items in stock for immediate shipment



FLATS

BRONZE
SHARP CORNERS
16′ LENGTHS

SIZE	WT. LBS. PER FT.
⅛″ x ½″	.231
⅛″ x ⅝″	.289
⅛″ x ¾″	.346
⅛″ x 1″	.461
⅛″ x 1¼″	.576
⅛″ x 1½″	.690
⅛″ x 2″	.921
3/16″ x ½″	.346
3/16″ x ⅝″	.432
3/16″ x ¾″	.518
3/16″ x 1″	.689
3/16″ x 1¼″	.870
3/16″ x 1½″	1.040
3/16″ x 2″	1.382
3/16″ x 2½″	1.728
3/16″ x 3″	2.075
3/16″ x 3½″	2.555
¼″ x ⅜″	.342
¼″ x ½″	.456
¼″ x ⅝″	.576
¼″ x ¾″	.691
¼″ x 1″	.921
¼″ x 1¼″	1.150
¼″ x 1½″	1.380
¼″ x 2″	1.842
¼″ x 2½″	2.300
¼″ x 3″	2.766
¼″ x 4″	3.650
⅜″ x ½″	.684
⅜″ x ¾″	1.040
⅜″ x 1″	1.380
⅜″ x 1¼″	1.730
⅜″ x 1½″	2.070
⅜″ x 2″	2.760
⅜″ x 2½″	3.422
⅜″ x 3″	4.106
½″ x ¾″	1.369
½″ x 1″	1.840
½″ x 1¼″	2.281
½″ x 1½″	2.760
½″ x 2″	3.680
½″ x 2½″	4.600
½″ x 3″	5.475

SQUARES

BRONZE
SHARP CORNERS
16′ LENGTHS

SIZE	WT. LBS. PER FT.
5/16″ x 5/16″	.360
⅜″ x ⅜″	.518
½″ x ½″	.922
⅝″ x ⅝″	1.441
¾″ x ¾″	2.075
1″ x 1″	3.689
1¼″ x 1¼″	5.76
1½″ x 1½″	8.28

ROUNDS

BRONZE
16′ LENGTHS

DIA.	WT. LBS. PER FT.
⅜″	.407
½″	.723
⅝″	1.13
¾″	1.63
1″	2.89
1¼″	4.52
1½″	6.51

ANGLES

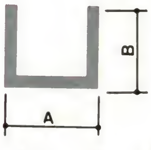
BRONZE
SHARP CORNERS
20′ LENGTHS
*16′ LENGTHS

EQUAL LEGS

SIZE	WT. LBS. PER FT.
½″ x ½″ x ⅛″	.42
⅝″ x ⅝″ x ⅛″	.52
¾″ x ¾″ x ⅛″	.64
1″ x 1″ x ⅛″	.89
1″ x 1″ x 3/16″	1.30
1¼″ x 1¼″ x ⅛″	1.09
1½″ x 1½″ x ⅛″	1.35
1½″ x 1½″ x ¼″	2.52
2″ x 2″ x ⅛″	1.79
† 2″ x 2″ x 3/16″	2.61
2″ x 2″ x ¼″	3.37*
2½″ x 2½″ x ¼″	4.33*
3″ x 3″ x ¼″	5.25*

UNEQUAL LEGS

SIZE	WT. LBS. PER FT.
¾″ x ⅜″ x ⅛″	.45
1″ x ½″ x ⅛″	.65
1″ x ¾″ x ⅛″	.75
1¼″ x ¾″ x ⅛″	.88
1½″ x 1″ x ⅛″	1.10
2″ x 1″ x ⅛″	1.33
† 3″ x 2″ x ¼″	4.32*
4″ x 2½″ x ¼″	5.70*

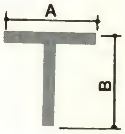


CHANNELS

BRONZE
SHARP CORNERS
20′ LENGTHS
*16′ LENGTHS

A	B	THICKNESS	WT. LBS. PER FT.
½″	½″	3/32″	.44
⅝″	5/16″	3/32″	.36*
¾″	⅜″	⅛″	.57
¾″	¾″	⅛″	.90
1″	½″	⅛″	.85
1″	¾″	⅛″	1.04
1″	1″	⅛″	1.25
1¼″	½″	⅛″	.91
1¼″	⅝″	⅛″	1.06
1¼″	1¼″	⅛″	1.60
1½″	½″	⅛″	1.02
1½″	⅝″	⅛″	1.12
† 1½″	1½″	⅛″	1.94
2″	¾″	⅛″	1.47
2¼″	⅞″	⅛″	1.75

† NEW STOCK ITEM



TEES

BRONZE
SHARP CORNERS
20′ LENGTHS

A	B	THICKNESS	WT. LBS. PER FT.
¾″	¾″	⅛″	.64
1″	1″	⅛″	.89
1½″	1½″	3/16″	1.94
2″	2″	3/16″	2.61

SQUARE TUBING

BRONZE
SHARP CORNERS
16′ LENGTHS

SIZE WALL THICKNESS	WT. LBS. PER FT.
½″ x ½″ x .065″	.43
⅝″ x ⅝″ x .065″	.55
¾″ x ¾″ x .065″	.68
⅞″ x ⅞″ x .065″	.76
1″ x 1″ x .065″	.92
1¼″ x 1¼″ x .065″	1.13
1¼″ x 1¼″ x .083″	1.46
1½″ x 1½″ x .083″	1.79
1¾″ x 1¾″ x .083″	2.07
2″ x 2″ x .083″	2.53
2½″ x 2½″ x .083″	2.99
3″ x 3″ x .083″	3.60

RECTANGULAR TUBING

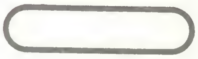
BRONZE
SHARP CORNERS
16′ LENGTHS

SIZE WALL THICKNESS	WT. LBS. PER FT.
1″ x ½″ x .065″	.65
1½″ x ¾″ x .065″	1.02
1½″ x 1″ x .083″	1.50
2″ x 1″ x .083″	1.78
2½″ x 1¼″ x .083″	2.15
3″ x 1¼″ x .083″	2.43
3″ x 1½″ x .083″	2.68
3″ x 1¾″ x .083″	2.83
3″ x 2″ x .083″	3.05
4″ x 1¾″ x .083″	3.46
4½″ x 1¾″ x .083″	3.77
5″ x 1¾″ x .083″	4.08

ROUND TUBING

BRONZE
STANDARD PIPE SIZES
20′ LENGTHS

NOMINAL SIZE	O. D.	WALL THICKNESS	WT. LBS. PER FT.
1¼″	1.660″	.140″	2.63
1½″	1.900″	.145″	3.13

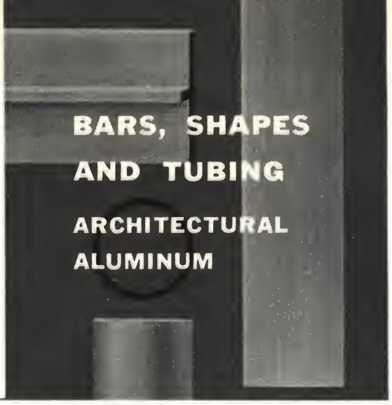


OVAL TUBING

BRONZE
16′ LENGTHS

SIZE THICKNESS	WT. LBS. PER FT.
† 2″ x ½″ x .050″	.820

All sizes can be furnished cut to specified lengths when required.



BARS, SHAPES AND TUBING

ARCHITECTURAL ALUMINUM

All items in stock
for immediate shipment

Upon request, any size of aluminum will be shipped to alumiliting plant for customer's account.

ALLOY 6063-T5
SUITABLE FOR ALUMILITING.

FLATS

SHARP CORNERS
16′ LENGTHS

SIZE	WT. LBS. PER FT.
1/8″ x 1/2″	.075
1/8″ x 5/8″	.094
1/8″ x 3/4″	.113
1/8″ x 1″	.150
1/8″ x 1 1/8″	.169
1/8″ x 1 1/4″	.187
1/8″ x 1 1/2″	.226
1/8″ x 1 3/4″	.263
1/8″ x 2″	.300
1/8″ x 3″	.450
1/8″ x 4″	.600
3/16″ x 1/2″	.113
3/16″ x 3/4″	.169
3/16″ x 1″	.226
3/16″ x 1 1/4″	.282
3/16″ x 1 1/2″	.337
3/16″ x 2″	.450
3/16″ x 2 1/2″	.564
1/4″ x 1/2″	.150
1/4″ x 5/8″	.187
1/4″ x 3/4″	.224
1/4″ x 1″	.300
1/4″ x 1 1/4″	.374
1/4″ x 1 1/2″	.450
1/4″ x 1 3/4″	.525
1/4″ x 2″	.600
1/4″ x 2 1/2″	.750
1/4″ x 3″	.900
1/4″ x 4″	1.200
1/4″ x 5″	1.500
1/4″ x 6″	1.800
3/8″ x 1/2″	.224
3/8″ x 5/8″	.281
3/8″ x 3/4″	.338
3/8″ x 1″	.450
3/8″ x 1 1/4″	.563
3/8″ x 1 1/2″	.674
3/8″ x 2″	.900
3/8″ x 2 1/2″	1.126
3/8″ x 3″	1.350
1/2″ x 3/4″	.450
1/2″ x 1″	.600
1/2″ x 1 1/4″	.750
1/2″ x 1 1/2″	.900
1/2″ x 2″	1.200
1/2″ x 2 1/2″	1.500
1/2″ x 3″	1.800
5/8″ x 1″	.750
5/8″ x 2″	1.500
5/8″ x 3″	2.250
3/4″ x 1″	.900
3/4″ x 1 1/2″	1.350
3/4″ x 2″	1.800
3/4″ x 2 1/2″	2.250
3/4″ x 3″	2.700
1″ x 1 1/2″	1.800
1″ x 2″	2.400
1″ x 2 1/2″	3.000
1″ x 3″	3.600

SQUARES

SHARP CORNERS
16′ LENGTHS
*13′-1″ LENGTHS

SIZE	WT. LBS. PER FT.
5/16″ x 5/16″	.116
3/8″ x 3/8″	.169
1/2″ x 1/2″	.300
5/8″ x 5/8″	.468
3/4″ x 3/4″	.674
1″ x 1″	1.200
1 1/4″ x 1 1/4″	1.875
1 1/2″ x 1 1/2″	2.700
1 3/4″ x 1 3/4″	3.676*

BARS

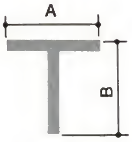
ROUND CORNERS
20′ LENGTHS

NO.	SIZE	CORNER RADIUS	WT. LBS. PER FT.	
6423	1 1/4″ x 1 1/4″	3/32″	1.875	Sq. Bar
6988	1/2″ x 2″	1/4″	1.138	Oval Bar
6939	3/4″ x 2 1/2″	3/16″	2.214	Rect. Bar
6986	3/4″ x 3″	1/8″	2.684	Rect. Bar
6424	1 1/4″ x 2 3/4″	3/32″	4.125	Rect. Bar

ROUNDS

16′ LENGTHS

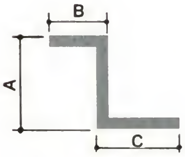
DIA.	WT. LBS. PER FT.
3/8″	.132
1/2″	.235
5/8″	.368
3/4″	.530
1″	.942
1 1/4″	1.472
1 1/2″	2.120



TEES

SHARP CORNERS
16′ LENGTHS

A	B	THICKNESS	WT. LBS.
3/4″	3/4″	1/8″	.206
3/4″	1 1/4″	1/8″	.280
1″	3/4″	1/8″	.244
1″	1″	1/8″	.281
1 1/8″	1 1/8″	1/8″	.319
1 1/4″	7/8″	1/8″	.300
2″	2″	3/16″	.856



ZEES

SHARP CORNERS
16′ LENGTHS

A	B	C	THICKNESS	WT. LBS. PER FT.
3/4″	3/4″	3/4″	1/8″	.300
7/8″	3/4″	3/4″	1/8″	.319
1″	5/8″	7/8″	1/8″	.337

ANGLES

SHARP CORNERS
16′ LENGTHS

EQUAL LEGS

SIZE	WT. LBS. PER FT.
1/2″ x 1/2″ x 1/16″	.070
1/2″ x 1/2″ x 1/8″	.131
5/8″ x 5/8″ x 1/8″	.168
3/4″ x 3/4″ x 1/16″	.108
3/4″ x 3/4″ x 1/8″	.206
1″ x 1″ x 1/16″	.145
1″ x 1″ x 1/8″	.281
1″ x 1″ x 3/16″	.408
1 1/4″ x 1 1/4″ x 1/8″	.356
1 1/4″ x 1 1/4″ x 3/16″	.519
1 1/2″ x 1 1/2″ x 1/8″	.431
1 1/2″ x 1 1/2″ x 3/16″	.633
1 1/2″ x 1 1/2″ x 1/4″	.824
1 3/4″ x 1 3/4″ x 1/8″	.506
2″ x 2″ x 1/8″	.581
2″ x 2″ x 3/16″	.857
2″ x 2″ x 1/4″	1.124
3″ x 3″ x 1/8″	.881

UNEQUAL LEGS

1″ x 1/2″ x 1/8″	.206
1″ x 3/4″ x 1/8″	.244
1 1/4″ x 1/2″ x 1/8″	.244
1 1/2″ x 3/4″ x 1/8″	.319
1 1/2″ x 1″ x 1/8″	.356
2″ x 1″ x 1/8″	.431
2″ x 1″ x 3/16″	.633
3″ x 1″ x 1/8″	.581
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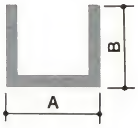


CHANNELS

SHARP CORNERS
16′ LENGTHS
*20′ LENGTHS

A	B	THICKNESS	WT. LBS.
3/8″	3/8″	.109″	.120
1/2″	3/8″	1/8″	.150
1/2″	1/2″	3/32″	.148
1/2″	3/4″	1/8″	.263
5/8″	5/8″	1/8″	.244
5/8″	1″	1/8″	.356
3/4″	3/8″	1/8″	.187
3/4″	1/2″	1/8″	.225
3/4″	3/4″	1/8″	.300
1″	1/2″	1/8″	.263*
1″	1″	1/8″	.413
1 1/4″	1/2″	1/8″	.300*
1 1/4″	5/8″	1/8″	.337*
1 1/4″	3/4″	1/8″	.374*
1 1/4″	1 1/4″	1/8″	.526
1 1/2″	1/2″	1/8″	.337*
1 1/2″	5/8″	1/8″	.374*
1 1/2″	1 1/2″	1/8″	.637
1 3/4″	1/2″	1/8″	.374
1 3/4″	3/4″	1/8″	.450
1 3/4″	1″	1/8″	.524
2″	1/2″	1/8″	.413
2″	1″	1/8″	.564*
2″	2″	1/8″	.863
2 1/4″	7/8″	1/8″	.563
3″	1/2″	1/8″	.563
3″	1″	1/8″	.713
5″	2″	3/16″	1.940

BARS, SHAPES, TUBING (CONTINUED)

ALUMINUM

All items in stock for immediate shipment

STRUCTURAL SHAPES

ALLOY 6061-T6 25′ LENGTHS

STRUCTURAL ANGLES

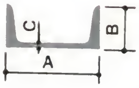
EQUAL LEGS

SIZE	WT. LBS. PER FT.
2″ x 2″ x ⅜″	1.60
2½″ x 2½ x ¼″	1.41
3″ x 3″ x ¼″	1.68
3″ x 3″ x ⅜″	2.47
4″ x 4″ x ¼″	2.28
4″ x 4″ x ⅜″	3.36

STRUCTURAL ANGLES

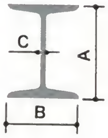
UNEQUAL LEGS

SIZE	WT. LBS. PER FT.
2½″ x 2″ x ¼″	1.25
3″ x 2″ x ¼″	1.40
3½″ x 2½″ x ¼″	1.68
4″ x 3″ x ¼″	1.99
4″ x 3″ x ⅜″	2.92



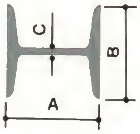
STRUCTURAL CHANNELS

DEPTH A	FLANGE B	WEB C	WT. LBS. PER FT.
3″	1.410″	.170″	1.42
4″	1.580″	.180″	1.84
5″	1.750″	.190″	2.31
6″	1.945″	.225″	3.00



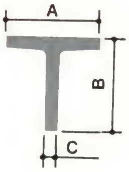
STRUCTURAL I-BEAMS

DEPTH A	FLANGE B	WEB C	WT. LBS. PER FT.
3″	2.330″	.170″	1.96
4″	2.660″	.190″	2.64
5″	3.000″	.210″	3.42
6″	3.330″	.230″	4.30



STRUCTURAL H-COLUMNS

DEPTH A	FLANGE B	WEB C	WT. LBS. PER FT.
4″	4″	.313″	4.70

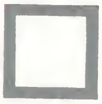


STRUCTURAL TEES

DEPTH A	FLANGE B	WEB C	WT. LBS. PER FT.
2″	2″	¼″	1.25

ALUMINUM TUBING

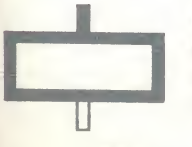
ALLOY 6063- T5 , EXCEPT AS NOTED.
SUITABLE FOR ALUMILITING.



SQUARE TUBING

SHARP CORNERS
21′-1″ LENGTHS

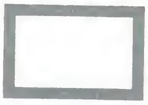
SIZE	WALL THICKNESS	WT. LBS. PER FT.
½″ x ½″	x .062″	.130
⅝″ x ⅝″	x .062″	.167
¾″ x ¾″	x .062″	.205
¾″ x ¾″	x .125″	.374
1″ x 1″	x .062″	.278
1″ x 1″	x .125″	.525
1¼″ x 1¼″	x .078″	.438
1¼″ x 1¼″	x .125″	.675
1½″ x 1½″	x .078″	.532
1½″ x 1½″	x .125″	.825
1¾″ x 1¾″	x .125″	.975
2″ x 2″	x .078″	.720
2″ x 2″	x .125″	1.124
2½″ x 2½″	x .125″	1.424
3″ x 3″	x .125″	1.724
4″ x 4″	x .125″	2.324



TUBULAR MULLIONS

SHARP CORNERS
21′-1″ LENGTHS

SIZE	WALL THICKNESS	WT. LBS. PER FT.
1¾″ x 4″	x .125″	Single fin 1.724
1¾″ x 4″	x .125″	Double fin. 1.800



RECTANGULAR TUBING

SHARP CORNERS
21′-1″ LENGTHS

SIZE	WALL THICKNESS	WT. LBS. PER FT.
½″ x 1″	x .125″	.374
¾″ x 1½″	x .125″	.588
1″ x 1½″	x .125″	.661
1″ x 2″	x .125″	.825
1¼″ x 2½″	x .125″	1.050
1½″ x 2″	x .125″	.967
1½″ x 2½″	x .125″	1.124
1½″ x 6″	x .125″	2.135*
1¾″ x 2¼″	x .125″	1.125
1¾″ x 3″	x .125″	1.323
1¾″ x 3½″	x .125″	1.470
1¾″ x 4″	x .125″	1.650
1¾″ x 4½″	x .125″	1.765
1¾″ x 5″	x .125″	1.910
2″ x 3″	x .125″	1.395
2″ x 5″	x .125″	2.025

*ALLOY 3003-F

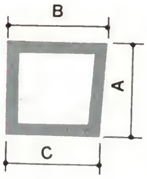
ROUND CORNERS
20′ LENGTHS

SIZE	WALL THICKNESS	WT. LBS. PER FT.
1¼″ x 2¾″	x .125″	1.123

RECTANGULAR TUBING

ALUMILITE FINISH
SHARP CORNERS
21′-1″ LENGTHS

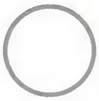
SIZE	WALL THICKNESS	WT. LBS. PER FT.
1¾″ x 3″	x .125	1.323
1¾″ x 4″	x .125	1.650
1¾″ x 5″	x .125	1.910
2″ x 5″	x .125	2.025



BEVEL FACE TUBING

SHARP CORNERS
21′-1″ LENGTHS

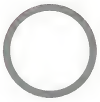
A	B	C	WALL THICKNESS	WT. LBS. PER FT.
1¾″	1.859″	1¾″	.125″	1.090
1¾″	5″	4⅞″	.125″	1.900



ROUND TUBING

THIN WALL
ALLOY 3003-H14
12′ LENGTHS

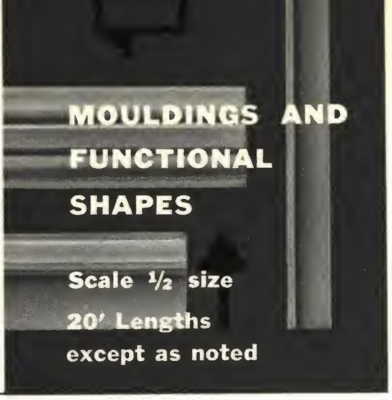
SIZE	WALL THICKNESS	WT. LBS. PER FT.
1″ O.D.	x .058″	.202
1¼″ O.D.	x .058″	.256
1½″ O.D.	x .065″	.329



ROUND TUBING

STANDARD PIPE SIZES.
20′ LENGTHS

NOMINAL SIZE	O.D.	WALL THICKNESS	WT. LBS. PER FT.
¾″	1.050″	.113″	.391
1″	1.315″	.133″	.581
1¼″	1.660″	.140″	.785
1½″	1.900″	.145″	.940
2″	2.375″	.154″	1.264



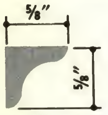
MOULDINGS AND FUNCTIONAL SHAPES

Scale 1/2 size
20' Lengths
except as noted

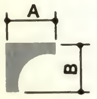
All items in stock for immediate shipment

For complete listing of stock mouldings, see Catalog No. 8

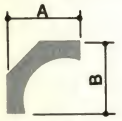
COVE MOULDINGS AND GLASS FRAMING SECTIONS



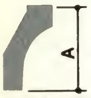
6950 ALUM. .228 lbs. per ft.



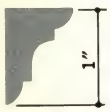
	Wt. #/'	A	B
6101 BRONZE	.32	3/8"	3/8"
6951 ALUM.	.106	3/8"	3/8"
4101 STEEL	.28	3/8"	3/8"
6102 BRONZE	.50	1/2"	1/2"
6952 ALUM.	.166	1/2"	1/2"
4102 STEEL	.40	1/2"	1/2"
4103 STEEL	.59	9/16"	9/16"
4110 STEEL	.72	5/8"	5/8"



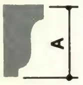
	Wt. #/'	A	B
6105 BRONZE	.67	3/4"	3/4"
6955 ALUM.	.260	3/4"	3/4"
4104 STEEL	.63	11/16"	11/16"
4105 STEEL	.84	3/4"	3/4"
4109 STEEL	.93	7/8"	7/8"



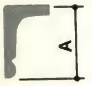
	Wt. #/'	A
4106 STEEL	.56	7/8"
4107 STEEL	.67	1"
4108 STEEL	1.05	1 3/16"



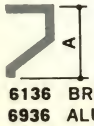
4120 STEEL 1.07 lbs. per ft.



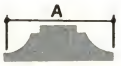
	Wt. #/'	A
4258 STEEL	.47	9/16"
4257 STEEL	.64	3/4"
4256 STEEL	1.23	1"



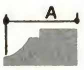
	Wt. #/'	A
6121 BRONZE	.60	3/4"
4121 STEEL	.49	3/4"



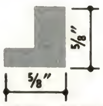
	Wt. #/'	A
6136 BRONZE	.60	3/4"
6936 ALUM.	.168	3/4"



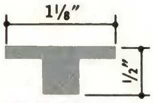
	Wt. #/'	A
6474 BRONZE	.99	1 1/8"
4474 STEEL	.96	1 1/8"



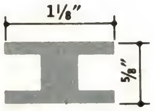
	Wt. #/'	A
6473 BRONZE	.76	3/4"
4473 STEEL	.71	3/4"



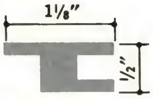
6470 BRONZE .93 lbs. per ft.



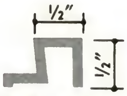
6958 ALUM. .338 lbs. per ft.



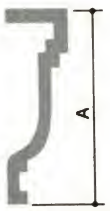
6960 ALUM. .507 lbs. per ft.



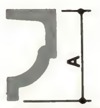
6959 ALUM. .394 lbs. per ft.



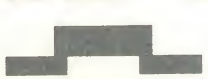
6953 ALUM. .183 lbs. per ft.



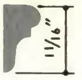
	Wt. #/'	A
6138 BRONZE	1.26	2"
6938 ALUM.	.439	2"



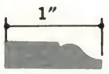
	Wt. #/'	A
6130 BRONZE	.700	15/16"
4130 STEEL	.650	15/16"



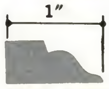
6140 BRONZE 1.97 lbs. per ft.



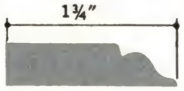
4123 STEEL .47 lbs. per ft.



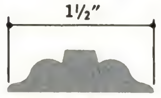
4450 STEEL .70 lbs. per ft.



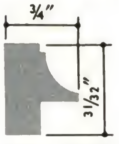
4451 STEEL 1.05 lbs. per ft.



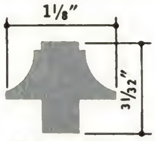
4461 STEEL 2.17 lbs. per ft.



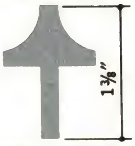
4471 STEEL 1.41 lbs. per ft.



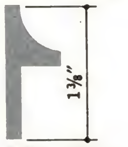
4620 STEEL 1.63 lbs. per ft.
6620 BRONZE 1.71 lbs. per ft.



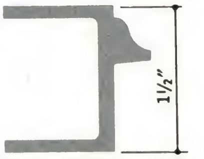
4621 STEEL 1.96 lbs. per ft.
6621 BRONZE 2.06 lbs. per ft.



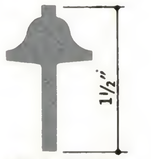
4602 STEEL 1.47 lbs. per ft.



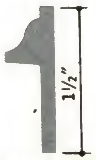
4603 STEEL 1.13 lbs. per ft.



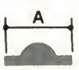
4615 STEEL 2.05 lbs. per ft.



4616 STEEL 1.60 lbs. per ft.

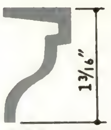


4617 STEEL 1.36 lbs. per ft.

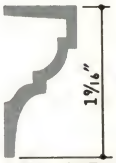


	Wt. #/'	A
4404 STEEL	.25	1/2"
4401 STEEL	.37	11/16"
4403 STEEL	.82	1"

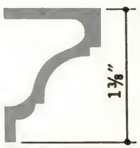
PLATE STRINGER MOULDINGS



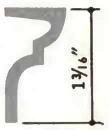
4157 STEEL .75 lbs. per ft.



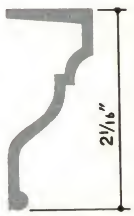
4151 STEEL .93 lbs. per ft.



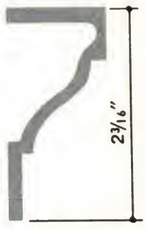
4156 STEEL 1.00 lbs. per ft.



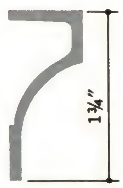
4150 STEEL .64 lbs. per ft.



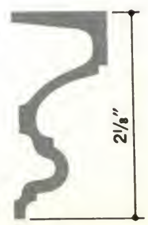
4152 STEEL 1.35 lbs. per ft.



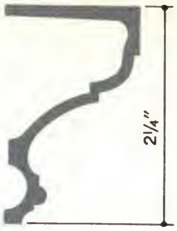
4153 STEEL 1.33 lbs. per ft.



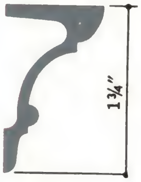
4265 STEEL .93 lbs. per ft.



4172 STEEL 1.70 lbs. per ft.

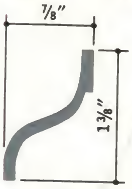


4171 STEEL 2.08 lbs. per ft.

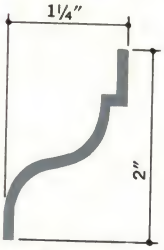


4154 STEEL 1.34 lbs. per ft.

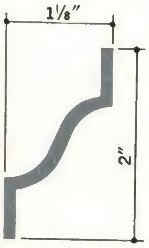
CHANNEL STRINGER MOULDINGS



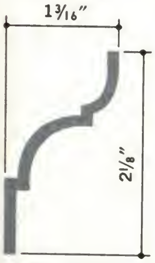
4300 STEEL .70 lbs. per ft.



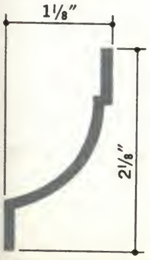
4304 STEEL .97 lbs. per ft.



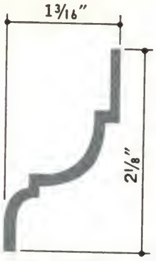
4305 STEEL .98 lbs. per ft.



4303 STEEL 1.15 lbs. per ft.

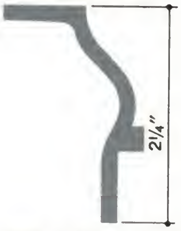


4312 STEEL 1.05 lbs. per ft.



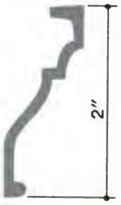
4302 STEEL 1.15 lbs. per ft.

WALL STRINGER MOULDING

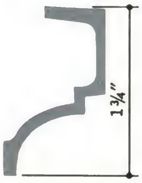


4226 STEEL 1.90 lbs. per ft.

BENT CHANNEL STRINGER MOULDINGS

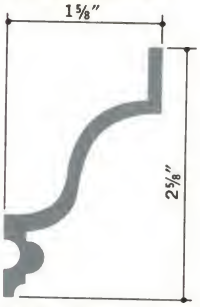


4159 STEEL 1.18 lbs. per ft.

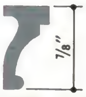


4173 STEEL 1.17 lbs. per ft.

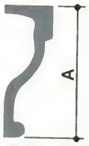
MISCELLANEOUS MOULDINGS



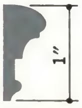
4354 STEEL 1.98 lbs. per ft.



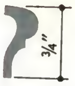
4203 STEEL .58 lbs. per ft.



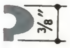
		Wt. #/'	A
4141	STEEL	.74	1⅜"
4140	STEEL	1.17	2"



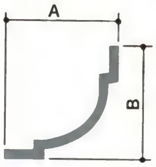
4144 STEEL .92 lbs. per ft.



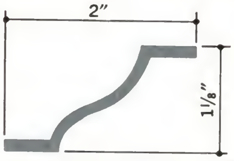
4201 STEEL .40 lbs. per ft.



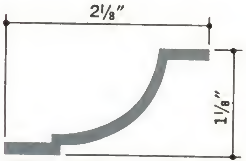
4208 STEEL .31 lbs. per ft.



		Wt. #/'	A	B
4320	STEEL	.74	1³⁄₁₆"	1³⁄₁₆"
4310	STEEL	1.00	1⁹⁄₁₆"	1⁹⁄₁₆"

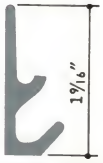


4322 STEEL .98 lbs. per ft.

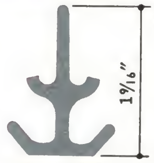


4323 STEEL 1.05 lbs. per ft.

SKYLIGHT BARS

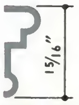


4630 STEEL 1.25 lbs. per ft.

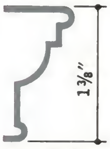


4631 STEEL 1.70 lbs. per ft.

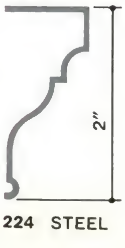
COLD ROLLED STEEL MOULDINGS NO. 22 GAUGE



696 STEEL

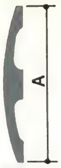


130 STEEL



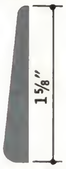
224 STEEL

DOOR EDGINGS



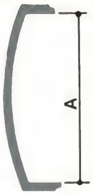
16' LENGTHS

		Wt. #/'	A
6647	BRONZE	.64	1⅝"
6947	ALUM.	.384	1⅝"



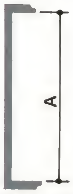
16' LENGTHS

6648 BRONZE 1.10 lbs. per ft



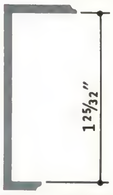
16' LENGTHS

		Wt. #/'	A
6642	BRONZE	.88	1²⁵⁄₃₂"
6944	ALUM.	.438	1⅞"



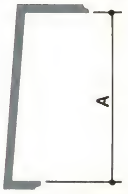
16' LENGTHS

		Wt. #/'	A
6643	BRONZE	.84	1²⁵⁄₃₂"
6940	ALUM.	.431	1⅞"



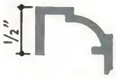
16' LENGTHS

6640 BRONZE .98 lbs. per ft.

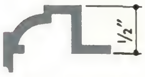


16' LENGTHS

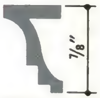
		Wt. #/'	A
6641	BRONZE	.96	1²⁵⁄₃₂"
6941	ALUM.	.431	1⅞"



6646 BRONZE .67 lbs. per ft.

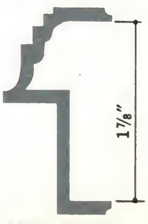


6645 BRONZE .79 lbs. per ft.



16' LENGTHS

6946 ALUM. .209 lbs. per ft.

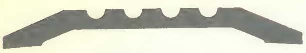


16' LENGTHS

6945 ALUM. .528 lbs. per ft.

SADDLES AND NOSINGS

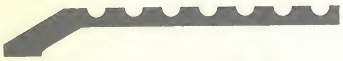
DOOR SADDLES



NO.		WT. LBS. PER FT.	WIDTH	HGT.
4510*	BRONZE	1.18	2½"	¼"
6910*	ALUM.	.365	2½"	¼"
6914*	ALUM.	.476	3"	¼"
4524	BRONZE	1.82	3"	⅜"
4504	STEEL	2.45	3"	½"
6924	ALUM.	.721	3"	½"
4503	STEEL	2.90	4"	½"
4523	BRONZE	2.65	4"	½"
6923	ALUM.	1.05	4"	½"
6926	ALUM.	.829	4"	½"
4516*	BRONZE	1.90	4"	½"
4521	BRONZE	3.08	4½"	½"
4522	BRONZE	3.32	5"	½"
6922	ALUM.	1.27	5"	½"
6918	ALUM.	1.00	5"	½"
4501	STEEL	4.86	5½"	⅝"
4520	BRONZE	4.10	6"	⅝"
6920	ALUM.	1.53	6"	⅝"
6921	ALUM.	1.23	6"	½"
6925	ALUM.	1.76	7"	½"
4500	STEEL	5.65	7"	⅝"
4525	BRONZE	5.50	7"	⅝"
6919	ALUM.	1.80	7½"	½"

*FURNISHED WITH SMOOTH TOP

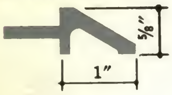
DOOR SADDLE SECTIONS

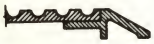


NO.		WT. LBS. PER FT.	WIDTH	HGT.
4511	BRONZE	2.73	3½"	⅝"
4512	BRONZE	3.38	4½"	⅝"
4513	BRONZE	3.80	5"	⅝"

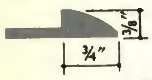
BEVEL END SECTIONS

for assembled door saddles

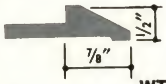




NO.		WT. LBS. PER FT.
4237	STEEL	1.09
4527	BRONZE	1.48
6927	ALUM.	.45

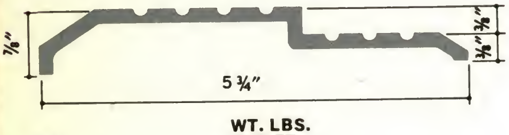


NO.		WT. LBS. PER FT.
4528	BRONZE	1.09



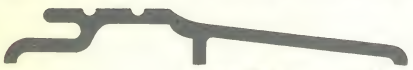
NO.		WT. LBS. PER FT.
4526	BRONZE	1.35

ROOF DOOR SADDLES

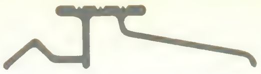


NO.		WT. LBS. PER FT.
4597	BRONZE	4.32
6997	ALUM.	1.45

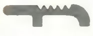
WEATHERSTRIP DOOR SADDLES



NO.		WT. LBS. PER FT.	WIDTH	HGT.
6990	ALUM.	.595	3½"	9/16"
4590	BRONZE	2.19	3½"	⅝"
4591	BRONZE	2.05	4⅛"	9/16"
6991	ALUM.	.689	4¼"	9/16"
4593	BRONZE	3.28	4½"	¾"
4594	BRONZE	2.50	5"	⅞"



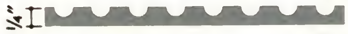
NO.		WT. LBS. PER FT.	WIDTH	HGT.
6995	ALUM.	.661	3½"	⅞"
4596	BRONZE	2.25	4¼"	⅞"
6996	ALUM.	.760	4¼"	⅞"



NO.		WT. LBS. PER FT.	WIDTH	HGT.
4598	BRONZE	.620	1⅛"	9/32"
6998	ALUM.	.180	1¼"	9/32"

FLAT FLUTED SECTIONS

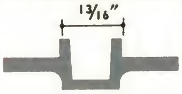
for assembled saddles and expansion joints

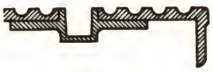


NO.		WT. LBS. PER FT.	WIDTH
4566	BRONZE	.720	1"
4558	BRONZE	1.08	1½"
6970	ALUMINUM	.361	1½"
4540	STEEL	1.03	1½"
5558	NICKEL SILVER	1.08	1½"
4557	BRONZE	1.48	2"
6971	ALUMINUM	.482	2"
4541	STEEL	1.37	2"
4556	BRONZE	1.84	2½"
4542	STEEL	1.71	2½"
4555	BRONZE	2.23	3"
6973	ALUMINUM	.723	3"
4543	STEEL	2.05	3"
4554	BRONZE	2.55	3½"
4544	STEEL	2.40	3½"
4553	BRONZE	2.89	4"
6975	ALUMINUM	.964	4"
4545	STEEL	2.73	4"
4553-Q	BRONZE	3.20	4¼"
4552	BRONZE	3.29	4½"
4546	STEEL	3.08	4½"
4551	BRONZE	3.57	5"
4550	BRONZE	4.05	5½"
4559	BRONZE	4.55	6⅛"

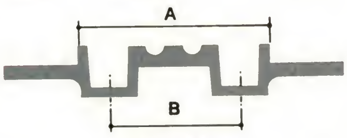
GROOVED SECTIONS

for assembled door and elevator saddles



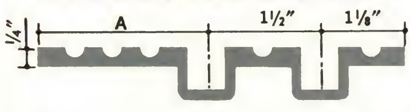


NO.		WT. LBS. PER. FT.
4584	STEEL	1.65
4585	BRONZE	1.68

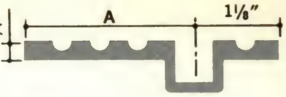


NO.		WT. LBS. PER FT.	A	B
4576	STEEL	3.20	2 5/16"	1½"
4582	BRONZE	3.71	2 5/16"	1½"
4577	STEEL	3.80	2 9/16"	1¾"
4581	BRONZE	3.77	2 9/16"	1¾"
4578	STEEL	3.78	2 13/16"	2"
4580	BRONZE	4.10	2 13/16"	2"

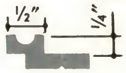
ELEVATOR CAR SADDLES

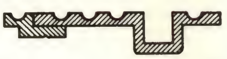


NO.		A	WT. LBS. PER FT.
4564	BRONZE	2¼"	4.60
4579	BRONZE	2⅞"	5.09
6964	ALUMINUM	2¼"	1.25
6979	ALUMINUM	2⅞"	1.44
5564	NICKEL SILVER	2¼"	5.10



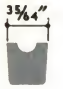
		A	WT. LBS. PER FT.
4563	BRONZE	2¼"	2.85
4569	BRONZE	2⅞"	3.55
6963	ALUMINUM	2¼"	.85
6969	ALUMINUM	2⅞"	1.08
5563	NICKEL SILVER	2¼"	3.15





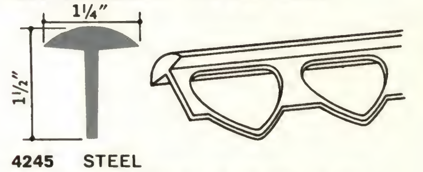
4567	BRONZE	1.04
6967	ALUMINUM	.314
5567	NICKEL SILVER	1.04

INSERT SECTIONS



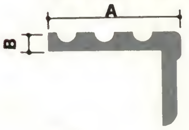
NO.		WT. LBS. PER FT.
4588	BRONZE	1.00
4587	STEEL	1.00

GALVANIZED CURB BAR

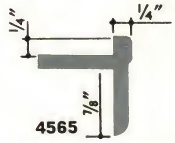


4245 STEEL

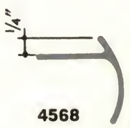
NOSINGS FOR STEPS AND ELEVATOR SADDLES



NO.		WT. LBS. PER FT.	A	B
4560	BRONZE	2.45	2¼"	¼"
4561	BRONZE	2.05	1¾"	¼"

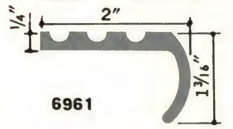


4565

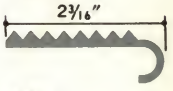


4568

4565	BRONZE	1.67
4568	BRONZE	.700

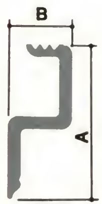


6961

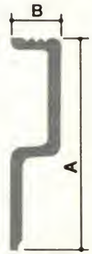


4508

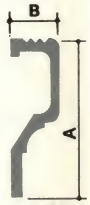
6961	ALUMINUM	.722
4508	STEEL	1.34



4231



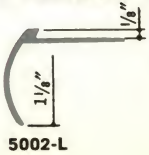
4232



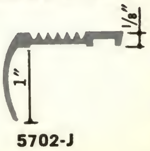
6632

		WT. lb./ft.	A	B
4231	STEEL	1.68	2 1/16"	13/16"
4232	STEEL	2.25	3"	11/16"
6632	BRONZE	1.50	2 3/16"	11/16"

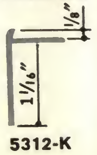
POLISHED ALUMINUM NOSINGS



5002-L



5702-J



5312-K

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